15 October 2007

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Subject: Semi-Annual Groundwater Monitoring Report, First and Second Quarters 2007, Presidio-Wide Quarterly Groundwater Monitoring Program, Presidio of San Francisco, California

Dear Devender and Robert:

Attached please find one hard copy and one electronic copy of the *Semi-Annual Groundwater Monitoring Report, First and Second Quarters 2007, Presidio-Wide Quarterly Groundwater Monitoring Program, Presidio of San Francisco (Volumes I and II)* prepared by Treadwell & Rollo for the Presidio Trust. This document is being submitted in accordance with Task 11 of the RWQCB Order R2-2003-0080.

Please feel free to call me at 415-561-4259 if you have any questions and/or comments.

Sincerely,
The Presidio Trust

Craig Cooper
Remediation Program Manager

Enclosure

cc: Brian Ullensvang, NPS
Doug Kern, RAB (electronic only)

SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2007
PRESIDIO-WIDE GROUNDWATER MONITORING PROGRAM
PRESIDIO OF SAN FRANCISCO, CALIFORNIA

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October 2007

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12 October 2007
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SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2007
PRESIDIO-WIDE GROUNDWATER MONITORING PROGRAM
Presidio of San Francisco, California

TABLE OF CONTENTS

LIST OF ACRONYMS AND ABBREVIATIONS xv

EXECUTIVE SUMMARY ES-1

1.0 INTRODUCTION 1
- 1.1 Report Organization 2
- 1.2 Field Sampling Plan 3
- 1.3 Groundwater Monitoring Objectives 3

2.0 BACKGROUND 5

3.0 GEOLOGIC AND HYDROGEOLOGIC SETTING 6

4.0 GROUNDWATER MONITORING 8
- 4.1 Groundwater Elevation Monitoring 8
  - 4.1.1 Groundwater Elevation Monitoring at Tidally Influenced Wells 9
- 4.2 Groundwater Sampling 10
  - 4.2.1 Groundwater Purging Methods and Selection Criteria 11
    - 4.2.1.1 Groundwater Purging Methods 11
    - 4.2.1.2 Groundwater Purging Method Selection Criteria 12
  - 4.2.2 Groundwater Sampling Methods 12
    - 4.2.2.1 Groundwater Sampling Methods After Normal Purging 12
    - 4.2.2.2 Groundwater Sampling After Low-Flow Purging 12
    - 4.2.2.3 Sampling at Seeps 13
- 4.3 Sample Preservation, Handling, and Transportation 14
  - 4.3.1 Sample Labels and Chain-of-Custody Documentation 14
  - 4.3.2 Filtration of Groundwater Samples for Metals Analyses 15

5.0 LABORATORY ANALYSES 17
- 5.1 Analytical Methods 17
- 5.2 Analytical Data Delivery Methods 18
- 5.3 Analytical Results 19
- 5.4 Analytical Data Comparability 19
  - 5.4.1 Field Methods 19
    - 5.4.1.1 Dissolved Oxygen 19
  - 5.4.2 Analytical Suite 20

5.4.3 Analytical Methods 20
5.4.3.1 TPH Analyses 20
5.4.3.2 Xylene Analyses 21
5.4.3.3 PAH Analyses 21
5.4.3.4 Metals Analyses 22
5.4.3.5 BTEX/MTBE Analyses 22
6.0 QUALITY ASSURANCE, QUALITY CONTROL, AND DATA VALIDATION 23
6.1 Data Validation 23
6.2 Quality Assurance and Quality Control Sampling 24
6.2.1 Duplicate Samples 24
6.2.1.1 Duplicate Sample Analytical Results 25
6.2.1.2 Quality Control Duplicate Sample Analytical Results 27
6.2.2 Equipment Rinsate Blanks 29
6.2.3 Trip Blanks 30
6.2.4 Source Water Blanks 31
6.2.5 Temperature Blanks 32
6.2.6 Matrix Spike and Matrix Spike Duplicate Samples 33
7.0 FIELD WORK DOCUMENTATION 34
8.0 DISPOSAL OF PURGE AND DECONTAMINATION WATER 35
8.0 DISPOSAL OF PURGE AND DECONTAMINATION WATER 35
REFERENCES 35
FIGURES
TABLES
APPENDICES

LIST OF TABLES

Volume I

Table 1A	Proposed Sampling Schedule First Quarter 2007
Table 1B	Proposed Sampling Schedule Second Quarter 2007
Table 2A	Groundwater Elevation Summary for Presidio Monitoring Wells, Elevations Collected on 26 February 2007
Table 2B	Groundwater Elevation Summary for Presidio Monitoring Wells, Elevations Collected on 4 June 2007
Table 3	Well Construction Details
Table 4	Groundwater Purge Volume Calculations
Table 5	Analytical Plan Summary
Table 6	Water Quality Criteria and Analytical Reporting Limits
Table 7	Duplicate and Quality Control Duplicate Sampling Schedule
Table 8	Analytical Results for Equipment Rinsate Blanks
Table 9	Analytical Results for Trip Blanks
Table 10	Analytical Results for Source Water Blanks
Table 11	Laboratory Qualifiers for Current and Historical Analytical Data
Table 12	Analytical Results for Purge and Decontamination Water

LIST OF FIGURES

Volume I

Figure 1	Presidio Map with Sampling Areas and Groundwater Basins
Figure 2A	Tidal Elevations at the Golden Gate Tidal Station on 26 February 2007
Figure 2B	Tidal Elevations at the Golden Gate Tidal Station on 4 June 2007

LIST OF APPENDICES

Appendix A Sampling Area Summaries

Volume I

A-1 Building 900s Area

A-2 Landfill 8

A-3 Fill Site 6

A-4 Battery Howe/Wagner

A-5 Building 1349 Area

A-6 Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, and Upgradient Wells

A-7 Landfill E

Volume II

A-8 Landfill 4

A-9 Fill Site 5

A-10 Building 231/207 Area

A-11 Building 1065/1027 Area

A-12 Mini-CAP Areas

A-13 Nike Missile Facility

A-14 Baker Beach Disturbed Area 3

A-15 Landfill 10

A-16 Commissary/PX Area

A-17 Baker Beach Disturbed Areas 1 and 2A

Appendix A List of Tables

Volume I

Table A-1-1 Summary of Dissolved Oxygen Measurements Building 900s Area

Table A-1-2 Results of VOC Analyses Building 900s Area

Table A-1-3 Results of TPH Analyses Building 900s Area

Table A-1-4 Groundwater Elevation Summary Building 900s Area

Table A-1-5 Summary of Vertical Gradients at Well Clusters Building 900s Area

Table A-2-1 Results of General Chemistry, Cyanide, and Sulfide Analyses Landfill 8

Table A-2-2 Results of PAH, OCP, PCB, Chlorinated Herbicide, and VOC Analyses Landfill 8

Table A-2-3 Results of Dissolved Metals Analyses Landfill 8

Table A-2-4 Groundwater Elevation Summary Landfill 8

Table A-3-1 Results of TPH Analyses Fill Site 6

Table A-3-2 Results of General Chemistry, PAH, OCP, PCB and Dissolved Oxygen Analyses Fill Site 6

Table A-3-3 Results of Dissolved Metals Analyses Fill Site 6

Table A-3-4 Results of Arsenic Speciation Analyses Fill Site 6

Table A-3-5 Results of Dissolved Gas and TOC Analyses Fill Site 6

Table A-3-6 Groundwater Elevation Summary Fill Site 6

Table A-4-1 Results of General Chemistry Analyses Battery Howe/Wagner

Table A-4-2 Results of Dissolved Metals Analyses Battery Howe/Wagner

Table A-4-3 Results of VOC Analyses Battery Howe/Wagner

Table A-4-4 Groundwater Elevation Summary Battery Howe/Wagner

Table A-5-1 Results of General Chemistry Analyses Building 1349 Area

Table A-5-2 Results of TPH Analyses Building 1349 Area

Appendix A List of Tables (continued)

Table A-5-3 Results of VOC Analyses Building 1349 Area

Table A-5-4 Results of OCP and PCB Analyses Building 1349 Area

Table A-5-5 Results of PAH Analyses Building 1349 Area

Table A-5-6 Results of Chlorinated Herbicide Analyses Building 1349 Area

Table A-5-7 Results of Dissolved Metals Analyses Building 1349 Area

Table A-5-8 Groundwater Elevation Summary Building 1349 Area

Table A-6-1 Results of General Chemistry and Cyanide Analyses Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104

Table A-6-2 Results of SVOC, PAH, OCP, PCB, Chlorinated Herbicide, and VOC Analyses Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104

Table A-6-3 Results of Total and Dissolved Metals Analyses Fill Site 1, Landfill 2, and El Polin Spring

Table A-6-4 Results of TPH Analyses Fill Site 1, Landfill 2, El Polin Spring, Buildings 10, 100, and 104

Table A-6-5 Groundwater Elevation Summary Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, Upgradient Wells, Buildings 10, 100, and 104

Table A-7-1 Results of General Chemistry and Cyanide Analyses Landfill E

Table A-7-2 Results of MBAS, Total Hardness, and TPH Analyses Landfill E

Table A-7-3 Results of SVOC, PAH, OCP, PCB, Chlorinated Herbicide, and VOC Analyses Landfill E

Table A-7-4 Results of Dissolved Metals Analyses Landfill E

Table A-7-5 Groundwater Elevation Summary Landfill E

Appendix A List of Tables (continued)

Volume II

Table A-8-1 Results of General Chemistry Analyses Landfill 4

Table A-8-2 Results of TPH, PAH, Chlorinated Herbicide, OCP, PCB, and VOC Analyses Landfill 4

Table A-8-3 Results of Dissolved Metals Analyses Landfill 4

Table A-8-4 Groundwater Elevation Summary Landfill 4

Table A-9-1 Results of General Chemistry Analyses Building 1349/Fill Site 5

Table A-9-2 Results of TPH Analyses Building 1349/Fill Site 5

Table A-9-3 Results of VOC Analyses Building 1349/Fill Site 5

Table A-9-4 Results of OCP and PCB Analyses Building 1349/Fill Site 5

Table A-9-5 Results of PAH Analyses Building 1349/Fill Site 5

Table A-9-6 Results of Chlorinated Herbicide Analyses Building 1349/Fill Site 5

Table A-9-7 Results of Total and Dissolved Metals Analyses Building 1349/Fill Site 5

Table A-9-8 Groundwater Elevation Summary Building 1349/Fill Site 5

Table A-10-1 Results of General Chemistry Analyses Building 231/207 Area

Table A-10-2 Summary of Dissolved Oxygen Measurements and Results of TPH Analyses Building 231/207 Area

Table A-10-3 Results of VOC Analyses Building 231/207 Area

Table A-10-4 Results of Dissolved Gas and TOC Analyses Building 231/207 Area

Appendix A List of Tables (continued)

Table A-10-5 Results of Arsenic Speciation Analyses Building 231/207 Area

Table A-10-6 Results of Dissolved Metals Analyses Building 231/207 Area

Table A-10-7 Groundwater Elevation Summary Building 231/207 Area

Table A-10-8 Summary of Vertical Gradients at Well Clusters Building 231/207 Area

Table A-11-1 Summary of Dissolved Oxygen Measurements Building 1065/1027 Area

Table A-11-2 Results of General Chemistry Analyses Building 1065/1027 Area

Table A-11-3 Results of BTEX, MTBE, VOCs, and TPH Analyses Building 1065/1027 Area

Table A-11-4 Results of Dissolved Metals Analyses Building 1065/1027 Area

Table A-11-5 Results of Dissolved Gas and TOC Analyses Building 1065 Area

Table A-11-6 Results of Arsenic Speciation Analyses Building 1065 Area

Table A-11-7 Groundwater Elevation Summary Building 1065/1027 Area

Table A-12-1 Results of General Chemical Analyses Mini-CAP Areas

Table A-12-2 Results of TPH, VOCs, and Dissolved Oxygen Analyses Mini-CAP Areas

Table A-12-3 Results of PCBs and PAH Analyses Mini-CAP Areas

Table A-12-4 Results of Dissolved Metals Analyses Mini-CAP Areas

Table A-12-5 Groundwater Elevation Summary Mini-CAP Areas

Table A-13-1 Summary of Cyanide and NDMA Analyses and Dissolved Oxygen Measurement Results Nike Missile Facility

Table A-13-2 Results of TPH Analyses Nike Missile Facility

Table A-13-3 Results of VOC Analyses Nike Missile Facility

Table A-13-4 Results of Dissolved and Total Metals Analyses Nike Missile Facility

Table A-13-5 Groundwater Elevation Summary Nike Missile Facility

Appendix A List of Tables (continued)

Table A-14-1 Results of Dissolved Oxygen Measurements and General Chemistry Analyses Baker Beach Disturbed Area 3

Table A-14-2 Results of TPH Analyses Baker Beach Disturbed Area 3

Table A-14-3 Results of Total and Dissolved Metals Analyses Baker Beach Disturbed Area 3

Table A-14-4 Groundwater Elevation Summary Baker Beach Disturbed Area 3

Table A-15-1 Results of General Chemistry Analyses Landfill 10

Table A-15-2 Results of BTEX, MTBE, and TPH Analyses Landfill 10

Table A-15-3 Results of Total and Dissolved Metals and TDS Analyses Landfill 10

Table A-15-4 Groundwater Elevation Summary Landfill 10

Table A-16-1 Results of General Chemistry Analyses Commissary/PX Area

Table A-16-2 Results of TPH Analyses Commissary/PX Area

Table A-16-3 Results of VOC Analyses Commissary/PX Area

Table A-16-4 Results of PAH Analyses Commissary/PX Area

Table A-16-5 Results of Total and Dissolved Metals Analyses Commissary/PX Area

Table A-16-6 Results of Dissolved Gas and TOC Analyses Commissary/PX Area

Table A-16-7 Results of Arsenic Speciation Analyses Commissary/PX Area

Table A-16-8 Groundwater Elevation Summary Commissary/PX Area

Table A-17-1 Results of Dissolved Oxygen and General Chemistry Analyses Baker Beach Disturbed Areas 1 and 2A

Table A-17-2 Results of TPH Analyses Baker Beach Disturbed Areas 1 and 2A

Table A-17-3 Results of Total and Dissolved Metals Analyses Baker Beach Disturbed Areas 1 and 2A

Table A-17-4 Results of PAH and VOCs Analyses Baker Beach Disturbed Areas 1 and 2A

Table A-17-5 Fresh Water Seep Elevation Summary Baker Beach Disturbed Areas 1 and 2A

Appendix A List of Figures

Volume I

Figure A-1-1 Building 900s Area Site Plan

Figure A-1-2 Building 900s Area, 26 February 2007, Groundwater Elevation Map, Shallow Zone

Figure A-1-3 Building 900s Area, 26 February 2007 Groundwater Elevation Map, Intermediate Zone

Figure A-1-4 Building 900s Area, 26 February 2007 Groundwater Elevation Map, Deep Zone

Figure A-1-5 Building 900s Area, 2007 Chemical Concentration Map, TCE, DCE, and Vinyl Chloride in Shallow Groundwater

Figure A-1-6 Building 900s Area, 2007 Chemical Concentration Map, TCE, DCE and Vinyl Chloride in Intermediate Groundwater

Figure A-1-7 Building 900s Area, 2007 Chemical Concentration Map, TCE, DCE and Vinyl Chloride in Deep Groundwater

Figure A-2-1 Landfill 8 Site Plan and 26 February 2007 Groundwater Elevation Map

Figure A-3-1 Fill Site 6 Area Site Plan

Figure A-3-2 Fill Site 6, Buildings 231/207 and Buildings 1065/1027 26 February 2007 Shallow Groundwater Elevation Map

Figure A-3-3 Fill Site 6 and Building 1065/1027 Redox Diagrams for Shallow Groundwater

Figure A-4-1 Battery Howe/Wagner Site Plan and 26 February 2007 Groundwater Elevation Map

Figure A-4-2 Battery Howe/Wagner Site Plan and 4 June 2007 Groundwater Elevation Map

Figure A-5-1 Building 1349 Site Plan and 26 February 2007 Groundwater Elevation Map

Figure A-5-2 Building 1349 Site Plan and 4 June 2007 Groundwater Elevation Map

Appendix A List of Figures (continued)

Figure A-5-3 Building 1349 2007 Chemical Concentration Map

Figure A-6-1 Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, Upgradient, Building 10 Wells Site Plan

Figure A-6-2 Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, and Upgradient Wells 26 February 2007 Groundwater Elevation Map

Figure A-7-1 Landfill E Site Plan and 26 February 2007 Groundwater Elevation Map

Figure A-7-2 Landfill E Site Plan and 4 June 2007 Groundwater Elevation Map

Volume II

Figure A-8-1 Landfill 4 Site Plan and 26 February 2007 Groundwater Elevation Map

Figure A-8-2 Landfill 4 Site Plan and 4 June 2007 Groundwater Elevation Map

Figure A-9-1 Fill Site 5 Site Plan and 26 February 2007 Groundwater Elevation Map

Figure A-10-1 Building 231/207 Area Site Plan

Figure A-10-2 Building 231/207, Building 1065/1027 and Fill Site 6 26 February 2007 Shallow Groundwater Elevation Map

Figure A-10-3 Building 231/207, Building 1065/1027 and Fill Site 6 4 June 2007 Shallow Groundwater Elevation Map

Figure A-10-4 Building 231/207 and Building 1065, 26 February 2007 Intermediate Groundwater Elevation Map

Figure A-10-5 Building 231/207 and Building 1065, 4 June 2007 Intermediate Groundwater Elevation Map

Figure A-10-6 Building 231/207, 26 February 2007 Deep Groundwater Elevation Map

Appendix A List of Figures (continued)

Figure A-10-7 Building 231/207, 4 June 2007 Deep Groundwater Elevation Map

Figure A-10-8 Building 231/207 Area 2007 Chemical Concentration Map, TPH, BTEX, and MTBE in Shallow Groundwater

Figure A-10-9 Building 231/207 Area Redox Diagrams for Shallow Groundwater

Figure A-10-10 Building 231/207 Area Redox Diagrams for Intermediate Groundwater

Figure A-10-11 Building 231/207 Area Redox Diagrams for Deep Groundwater

Figure A-11-1 Building 1065/1027 Area Site Plan

Figure A-11-2 Building 1065/1027, Building 231/207, and Fill Site 6 26 February 2007, Shallow Groundwater Elevation Map and TPHg Concentrations

Figure A-11-3 Building 1065/1027, Building 231/207, and Fill Site 6 4 June 2007, Shallow Groundwater Elevation Map and TPHg Concentrations

Figure A-11-4 Building 1065 and Building 231/207 26 February 2007 Intermediate Groundwater Elevation Map

Figure A-11-5 Building 1065 and Building 231/207 4 June 2007 Intermediate Groundwater Elevation Map

Figure A-11-6 Building 1065/1027 and Fill Site 6 Redox Diagrams for Shallow Groundwater

Figure A-11-7 Building 1065/1027 and Fill Site 6 Redox Diagrams for Intermediate Groundwater

Figure A-12-1 Mini-CAP Area 1 Site Plan and 26 February 2007 Groundwater Elevation Map

Figure A-12-2 Mini-CAP Area 1 Site Plan and 4 June 2007 Groundwater Elevation Map

Figure A-12-3 Mini-CAP Area 2 Site Plan and 26 February 2007 Groundwater Elevation Map

Appendix A List of Figures (continued)

Figure A-12-4 Mini-CAP Area 2 Site Plan and 4 June 2007 Groundwater Elevation Map

Figure A-13-1 Nike Missile Facility Site Plan and 26 February 2007 Groundwater Elevation Map

Figure A-14-1 Baker Beach Disturbed Area 3 Site Plan and 26 February 2007 Groundwater Elevation Map

Figure A-14-2 Baker Beach Disturbed Area 3 Site Plan and 4 June 2007 Groundwater Elevation Map

Figure A-15-1 Landfill 10 Site Plan and 26 February 2007 Groundwater Elevation Map

Figure A-15-2 Landfill 10 Site Plan and 4 June 2007 Groundwater Elevation Map

Figure A-16-1 Commissary/PX Area Site Plan and Phase 1 and 2 Corrective Action Areas

Figure A-16-2 Commissary/PX Area 4 June 2007 Groundwater Elevation Map A1 Zone Wells

Figure A-16-3 Commissary/PX Area Redox Diagrams for Shallow Groundwater

Figure A-17-1 Baker Beach Disturbed Areas 1 and 2A Site Plan and 26 February 2007 Fresh Water Seep Elevation Map

Figure A-17-2 Baker Beach Disturbed Areas 1 and 2A Site Plan and 4 June 2007 Fresh Water Seep Elevation Map

LIST OF APPENDICES

Volume I

Appendix A Sampling Area Summaries (A-1 through A-7)

Volume II

Appendix A Sampling Area Summaries (A-8 through A-17)

Appendix B Calibration Forms

Appendix C Groundwater Level Measurement Logs

Appendix D DataVal Data Validation Summary Reports (on CD)

Appendix E Curtis and Tompkins Analytical Data Reports (on CD)

Appendix F Columbia Analytical Services Analytical Data Reports (on CD)

SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2007
PRESIDIO-WIDE GROUNDWATER MONITORING PROGRAM
Presidio of San Francisco, California

List of Acronyms and Abbreviations

Action Plan	*Commissary Seeps Interim Source Removal Action Plan*
ANL	Argonne National Laboratory
Army	United States Department of Defense, Department of the Army
As III	pentavalent arsenic or arsenate
As V	trivalent arsenic or arsenite
AST	aboveground storage tank
BBDA 3	Baker Beach Disturbed Area 3
BGMP	Basewide Groundwater Monitoring Program
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
^{o}C	degrees Celsius
CAP	Corrective Action Plan
CCR	*Construction Completion Report for Landfill 4 and Fill Site 5*
CD	compact disk
CDHS	California Department of Health Services
Chaudhary	Chaudhary and Associates
Chromalab	STL Chromalab
cis-1,2-DCE	cis-1,2-dichloroethene
Cleanup Levels Document	Development of Presidio-wide Cleanup Levels for Soil, Sediment, Groundwater, and Surface Water
Coast Guard Station	former U. S. Coast Guard Station
COC	Contaminant of Concern
COPC	Compound of Potential Concern
CPT	cone penetrometer test

List of Acronyms and Abbreviations
(continued)

CTR	California Toxics Rule
Curtis & Tompkins	Curtis & Tompkins, Ltd.
CWA	Clean Water Act
DAF	dilution attenuation factor
DataVal	DataVal, Inc.
DCA	dichloroethane
DCE	dichlorethene
DEH	Directorate of Engineering and Housing
DEH RAP	*Directorate of Engineering and Housing (DEH) Study Area, Evaluation of Remedial Alternatives and Draft Remedial Action Plan (RAP)*
DO	dissolved oxygen
DTSC	California Environmental Protection Agency, Department of Toxic Substances Control
DUP	duplicate
DVSR	*Data Validation Summary Report for the Presidio Trust Groundwater Monitoring*
EDD	electronic data deliverable
EKI	Erler & Kalinowski, Inc.
EPA	United States Environmental Protection Agency
ERB	equipment rinsate blank
FDS	fuel distribution system
Fe	iron
FFS	Focused Feasibility Study
FPALDR	*Fuel Product Action Level Development Report*
FS	Feasibility Study
FS 5	Fill Site 5
FS 6A	Fill Site 6A
FS 6B	Fill Site 6B
FSP	Field Sampling Plan
FYR/WP	*Five-year Review and Field Investigation Work Plan for Landfills 8 and 10*

List of Acronyms and Abbreviations (continued)

GC/MS	gas chromatograph/mass spectrometer
GGTR	Golden Gate Tank Removal
GGTS	Golden Gate Tidal Station
Golder	Golder Associates
gpm	gallon per minute
GPS	global positioning system
Hg	mercury
ICP	inductively coupled plasma
IT	International Technology Corporation
LF 4	Landfill 4
LUCs	Land Use Controls
MBAS	methylene blue active substances
MCL	Maximum Contaminant Level
µg/dl	micrograms per deciliter
µg/kg	micrograms per kilogram
µg/L	micrograms per liter
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
Mini-CAP Report	*Mini-CAPs Site Reviews and Recommendations to Address Former Petroleum Release Sites* Report
MS	mass spectrography confirmation
MS/MSD	matrix spike/matrix spike duplicate
MTBE	methyl tertiary-butyl ether
NDMA	N-nitrosodimethylamine
NGVD29	National Geodetic Vertical Datum of 1929
NOAA	National Oceanic and Atmospheric Administration
NPS	United States Department of the Interior, National Park Service
OCP	organochlorine pesticides
ORC	Oxygen Release Compound
PAH	polycyclic aromatic hydrocarbon

List of Acronyms and Abbreviations
(continued)

PALs	Performance Acceptance Limits
PBDE	polybrominated diphenyl ether
PCB	polychlorinated biphenyl
PCE	tetrachloroethene
PCOC	Potential Contaminant of Concern
PHSH	Public Health Service Hospital
PHSH ROD	Public Health Service Hospital Record of Decision
PLLW	Presidio Lower Low Water
POL	petroleum oil and lubricants
Presidio	Presidio of San Francisco
PX	Post Exchange
QAPP	*Presidio-wide Quality Assurance Project Plan Sampling and Analysis Plan*
QA/QC	quality assurance/quality control
QC	quality control
RAB	Restoration Advisory Board
RAP	Remedial Action Plan
Redox	reduction/oxidation
RI	Remedial Investigation
ROD	Record of Decision
RPD	relative percent difference
RU	Remedial Unit
RWQCB	California Environmental Protection Agency, Regional Water Quality Control Board, San Francisco Bay Region
SCRs	Site Cleanup Requirements
SDG	Sample Delivery Group
SDWA	Safe Drinking Water Act
Sequoia	Sequoia Analytical
SI	Site Investigation
SOP	Standard Operating Procedure
SVOC	semivolatile organic compound

List of Acronyms and Abbreviations (continued)

TB	trip blank
TCE	trichloroethene
TCP	1,2,3-trichloropropane
TDS	total dissolved solids
THR	Tennessee Hollow Restoration
TMB	trimethylbenzene
Towill	Towill, Inc.
TOC	total organic carbon
TPH	total petroleum hydrocarbons
TPHfo	total petroleum hydrocarbons as fuel oil
TPHg	total petroleum hydrocarbons as gasoline
TPHd	total petroleum hydrocarbons as diesel
TPHmo	total petroleum hydrocarbons as motor oil
TPHss	total petroleum hydrocarbons as stoddard solvent
Treadwell & Rollo	Treadwell & Rollo, Inc.
Trust	The Presidio Trust
TSS	total suspended solids
µg/L	micrograms per Liter
UST	underground storage tank
VOC	volatile organic compound

SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2007
Presidio of San Francisco, California

E.1 EXECUTIVE SUMMARY

The Presidio-Wide Quarterly Groundwater Monitoring Program continued, with modifications, during the First and Second Quarters 2007. The First Quarter 2007 sampling event began on 26 February 2007 and was completed on 8 March 2007. The Second Quarter 2007 sampling event began on 4 June 2007 and was completed on 8 June 2007. This executive summary serves as a semi-annual summary of the groundwater monitoring program at the Presidio for the first half of 2007.

E.1.1 Changes to the Quarterly Groundwater Monitoring Program, First and Second Quarters 2007

Several modifications to the Presidio-wide Quarterly Monitoring Program were implemented during the First and Second Quarters 2007. Changes to the monitoring program are depicted in red text in Tables 1A and 1B. The majority of the changes were associated with reductions in sampling frequency at sites with decision documents in place. All changes approved for the First and Second Quarters 2007 are summarized below and are detailed in Tables 1A and 1B, respectively.

E.1.1.1 First Quarter 2007

The following changes were approved and implemented during the First Quarter 2007, as detailed in Table 1A.

Sampling Method Modifications

No monitoring well, piezometer, or seep sampling method modifications were proposed during the First Quarter 2007.

Water Level/Seep Evaluation Frequency Changes

The following changes were proposed for the frequency of water level/seep evaluation measurements prior to the First Quarter 2007, as detailed in Table 1A.

- Water level measurements at Fill Site 5 were reduced to annual during the First Quarter.
- Water level measurements at the Nike Missile Facility were reduced to annual during the First Quarter.

- Water level measurements at Fill Site 6 were reduced to semi-annual during the First and Third Quarters 2007.

- Water level measurements at Building 1065 were reduced to annual during the First Quarter.

- Based on the large historical data set, water level measurements at Upgradient and Tennessee Hollow wells will no longer be collected.

Analytical Additions and Reductions

Several changes in the sampling and analytical program scope were approved for the First Quarter 2007. The following changes were approved and implemented during the First Quarter 2007, as detailed in Table 1A.

- The post-remediation groundwater monitoring requirements and cleanup levels from the RAP for OCPs at Fill Site 5 were achieved in the Third Quarter 2006. Additionally, the Colma backfill soil sampling showed that OCPs were not present above cleanup levels in Fill Site 5 backfill soil. Thus, OCPs and dissolved oxygen were removed from the Fill Site 5 monitoring program prior to the First Quarter 2007. Fill Site 5 wells were not proposed for sampling during the First or Second Quarters 2007.

- Monitoring of NDMA and dissolved oxygen at the Nike Facility was reduced to an annual basis to be consistent with other Nike Facility analyses until the remedial action at the site is implemented.

- The post-remediation groundwater monitoring requirements from the Fill Site 6A RAP have been met for one year (5 quarters of data). Analyses were reduced to a semi-annual basis, in accordance with the Fill Site 6A RAP.

- All well and piezometer sampling at Building 1065 was reduced to an annual basis until implementation of the Building 1065 CAP, after which sampling will be conducted in accordance with CAP requirements.

- Monitoring of Building 207/231 wells is required at least two months prior to the Building 231/207 Area remedial action in order to establish a pre-construction baseline. During the First Quarter 2007, the remedial action was scheduled to begin in August 2007; thus, the annual sampling for the Building 207/231 wells was postponed until the Second Quarter 2007.

- At Landfill 10, LF10GW02 and LF10SP01 could not be sampled during Q1, Q2, or Q3 2006 due to thick vegetation. The brush was cleared and samples were collected at these locations during Q4 2006. The sampling frequency at these two locations has returned to match the remainder of the site. TPH analyses have been increased from annual to

quarterly in all Landfill 10 wells and the seep due to recent detections in groundwater at Landfill 10. The TPH data will be evaluated in the RAP.

E.1.1.2 Second Quarter 2007

The following changes were approved and implemented during the Second Quarter 2007, as detailed in Table 1B.

Sampling Method Modifications

No monitoring well, piezometer, or seep sampling method modifications were proposed during the Second Quarter 2007.

Water Level/Seep Evaluation Frequency Changes

The following changes were proposed for the frequency of water level/seep evaluation measurements during the Second Quarter 2007, as detailed in Table 1B.

- Water level measurements at the Commissary/PX were added back into the program on a quarterly basis.
- At Building 1065, four wells (1065PZ1A, 1065PZ1B, 1065MW9A, and 1065MW9B) were abandoned prior to Second Quarter 2007; therefore, water level measurements will no longer be taken at these wells. One new well (1065MW103A) was installed prior to Second Quarter 2007. Water level measurements for this new well and all the other site wells were measured.
- At the Mini-CAP Area, water level measurements were discontinued for all wells except FM14EX07GW102, FM14EX07GW101, and 1213GW101 which will continue to be measured on a quarterly basis.

Analytical Additions and Reductions

There were some additions and reductions in the sampling and analytical program scope approved prior to the Second Quarter 1007, as detailed below.

- Sampling at the Commissary/PX Area was temporarily suspended prior to the Fourth Quarter 2006, until the Commissary/PX Area CAP implementation is complete. Phase I excavation remediation work at the Com/PX Area was substantially complete during the Second Quarter 2007. The post-remediation groundwater monitoring program required by the Revised Final CAP (600GW106, 610GW101 through 610GW103 and seeps 610SP01 and 610SP02) was initiated during Second Quarter 2007. Well 600GW101 has been decommissioned and has not been replaced.

- Four wells (1065PZ1A, 1065PZ1B, 1065MW9A, and 1065MW9B) were abandoned prior to the Second Quarter 2007 in accordance with the Building 1065 Implementation Work Plan. One new well (1065MW103A) was installed prior to Second Quarter 2007. Well 1065MW103A was sampled during the Second Quarter 2007 for the analyses required in the Final CAP.

- No chemicals have been detected above cleanup levels at Mini-CAP Area monitoring wells, except 1213GW101. Samples were collected at FM14EX07GW101 and FM14EX07GW102 during the Second Quarter 2007 to obtain additional data. No other analyses were proposed at any other Mini-CAP Area monitoring wells.

E.1.2 Arsenic and Redox Evaluations

Several parameters were measured in the field and in the laboratory to help determine the redox state of groundwater at Fill Site 6, Building 231/207, Building 1065, and Commissary/PX Areas. The parameters collected were included in the groundwater monitoring program at the aforementioned sites during the First and/or Second Quarter 2007.

The field and analytical data were collected at Fill Site 6, Building 231/207, Building 1065 and Commissary/PX Areas to better understand redox conditions at each site. Modified redox diagrams were developed for Fill Site 6 (A-3), Building 231/207 (A-10), Building 1065 (A-11) and Commissary/PX (A-16) Areas and presented to illustrate the redox conditions spatially across each site.

The redox diagrams were generated using the Sequence™ program and imported onto the figures. The redox diagrams were developed using concentrations of dissolved oxygen, nitrate, manganese, iron, sulfate and methane. Each redox diagram consists of multiple axes, with each individual axis representing one of the above analytes. Each redox diagram is associated with one monitoring well location. The relative shape of each redox diagram represents an approximation of the redox state within the well studied. In general, the larger the polygon, the more oxidizing the environment is within the well location; conversely, the smaller the polygon, the more reducing the environment. Examples of typical redox environments (i.e., aerobic, nitrate-reducing, manganogenic, ferrogenic, sulfate-reducing, and methanogenic) and their associated redox diagrams are presented on each redox diagram figure.

E.1.3 Significant Observations and Accomplishments in First and Second Quarters 2007

Significant changes or trends in groundwater characteristics and chemistry as well as significant site-specific milestones are discussed below. Changes to proposed site-specific sampling schedules are discussed in the site-specific sections of Appendix A.

E.1.3.1 Building 900s Area (Appendix A-1)

Groundwater elevations, gradients, and flow directions during First Quarter 2007 are consistent with historical values and interpretations. VOC concentrations detected during the First Quarter 2007 did not exceed their respective RAP-specified cleanup levels. The majority of VOC concentrations detected during the First Quarter 2007 were within the range of previously detected concentrations. The only monitoring well with significantly higher VOC concentrations was intermediate well 979GW110, which had a higher concentration of cis-1,2-DCE detected than in any previous monitoring event. Cis-1,2-DCE and vinyl chloride were detected for the first time within monitoring well 937GW104 and TCE was detected for the first time within monitoring well 937GW114. All VOC detections were significantly less than RAP-specified cleanup levels.

The relative concentration ratios of TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride within Building 900s groundwater samples continue to indicate that natural biodegradation processes are occurring. The ratios of TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride will continue to be monitored in future events.

TPHg and TPHd were only detected in the shallow monitoring well 937GW108 during the First Quarter 2007. The detected TPH concentrations within 937GW108 were within or below the range of historical concentrations.

The current sampling program at the Building 900s Area will be reviewed as part of a five year review report for this area, which is scheduled to be completed in 2007. Changes to the monitoring program at the Building 900s Area will be proposed in the five year review report.

E.1.3.2 Landfill 8 (Appendix A-2)

Groundwater elevations, gradients, and flow directions during First Quarter 2007 are consistent with historical values and interpretations. The five Landfill 8 monitoring wells were sampled and analyzed during the First Quarter 2007 according to the proposed sampling schedule. The majority of general chemistry results from the First Quarter 2007 were within the range of previously detected concentrations within Landfill 8 Area monitoring wells.

No OCPs, PCBs, VOCs, or chlorinated herbicides were detected in the Landfill 8 groundwater samples collected during First Quarter 2007.

No other significant trends or observations were identified at Landfill 8 during First Quarter 2007. The sampling frequency at Landfill 8 has been reduced to annual monitoring, until the Landfill 8 RAP (RAP4) is finalized and implemented. RAP4 is scheduled to be completed in 2008. Sampling at Landfill 8 will be performed in accordance with the RAP4 requirements upon its completion.

E.1.2.3 Fill Site 6 (Appendix A-3)

Groundwater elevations, gradients, and flow directions are consistent with historical values and interpretations. No significant trends or observations were identified at FS 6 during the First and Second Quarters 2007.

No RAP-specified cleanup levels were exceeded during the First Quarter 2007 within the FS 6 wells sampled.

No TPH, OCPs, PCBs, or PAHs were detected within any FS 6 wells sampled for these analytes during the First Quarter 2007.

Several new high or low concentrations of dissolved metals were detected within FS 6 samples during the First Quarter 2007. However, the majority of these metal concentrations were only slightly higher or lower than previously detected concentrations. No detected metals concentrations exceeded their RAP-specified cleanup levels for FS 6 monitoring wells during the First Quarter 2007.

Post-remediation groundwater monitoring at FS 6A began during the Fourth Quarter 2005, in accordance with the RAP. Analyses were reduced to a semi-annual basis beginning in the First Quarter 2007. The wells are expected to be sampled on a semi-annual basis through the Third Quarter 2008, but monitoring results are reviewed following each sampling event to determine if modifications to the sampling program should be made.

FS 6B will be addressed in RAP5, which is scheduled to be completed in the summer of 2009. FS 6B wells are expected to be sampled on an annual basis until RAP5 is prepared.

E.1.2.4 Battery Howe/Wagner (Appendix A-4)

Groundwater elevations, gradients, and flow directions during First and Second Quarters 2007 are consistent with historical values and interpretations. The five Battery Howe/Wagner monitoring wells were sampled and analyzed during the First and Second Quarter 2007 without any significant findings.

The majority of general chemistry and dissolved metals results were within the range of previously detected concentrations for Battery Howe/Wagner monitoring wells and are not considered significant. Chloride and chromium were the only analytes detected above their cleanup levels during the First and Second Quarters 2007. Chloride was detected above its cleanup level in HWGW100 during the Second Quarter 2007 and chromium was detected above its cleanup level during both the First and the Second Quarters 2007. Chromium has exceeded its cleanup level within BHWGW01 since 1992.

Antimony and vanadium were detected for the first time in Battery Howe/Wagner monitoring wells during the First Quarter 2007. Analysis for dissolved metals will continue to determine if trends develop.

The VOCs results for the First Quarter 2007 are similar to historical trends with low levels of carbon, tetrachloride and chloroform detected in monitoring well BHWGW01 and a new low of concentration 1,1-DCE detected in monitoring well HWGW100.

E.1.2.5 Building 1349 Study Area (Appendix A-5)

Six Building 1349 monitoring wells were sampled during the First Quarter 2007. Monitoring well 1349MW100 was the only well sampled during the Second Quarter 2007.

The Building 1349 Area CAP was finalized and submitted to the stakeholders in February 2006. Groundwater sampling at the Building 1349 Area will be conducted in accordance with the CAP when the CAP is implemented. The recommended corrective actions for the Building 1349 Area are detailed in the CAP and are summarized in Section 3.0.

OCPs, PAHs, TPH and VOCs compounds continue to be detected within monitoring well 1349MW100 above CAP-specified cleanup levels, however, the detected concentrations of these compounds has remained relatively stable over recent quarters and concentrations were not observed outside of historical bounds.

Additionally, monitoring wells 1349MW02, 1349MW03R, 1349MW100, 1349MW103, and 1349MW105 all had at least one dissolved metal detected above CAP-specified cleanup levels during the First and/or Second Quarter 2007.

Dissolved arsenic, iron, and manganese have been detected in monitoring well 1349MW100 samples at concentrations generally higher than within the other Building 1349 monitoring wells. Arsenic is commonly found in the natural environment and is often present in combination with iron and manganese oxides. Arsenic has also been detected at elevated concentrations in monitoring well 1349MW105, although not in association with elevated concentrations of manganese or iron. Arsenic, iron and manganese are generally more soluble and mobile under reducing conditions. A reducing environment likely exists within 1349MW100 due to the degradation of petroleum hydrocarbons present at this well. This chemical process is likely contributing to the elevated levels of dissolved arsenic, iron and manganese within 1349MW100. Future detections and concentration trends for these metals will continue to be monitored and evaluated.

Building 1349 Area monitoring wells will continue to be sampled in accordance with the Building 1349 Area CAP, and results evaluated against the Building 1349 Area CAP cleanup levels. The Building 1349 corrective action is scheduled to begin in the Fall of 2007.

E.1.2.6 Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, and Upgradient Wells (Appendix A-6)

Cyanide was detected at the laboratory's reporting limit of 0.01 µ/L for the first time in the sample collected from monitoring well LF01GW04 during the First Quarter 2007. The detected concentration is below the cleanup level (0.15 mg/L) and is not considered to be significant.

Several new high concentrations of total metals were detected within the EPSP01 sampled collected during the First Quarter 2007, and may be associated with an increase in the amount of sediment in the El Polin Spring water at the time of sampling. No other significant trends were observed during the First Quarter 2007.

E.1.2.7 Landfill E (Appendix A-7)

Groundwater elevations, gradients, and flow directions are consistent with historical values and interpretations. No significant trends or observations were identified at Landfill E during the First and Second Quarters 2007.

The majority of the general chemistry parameters measured during the First Quarter 2007 are within historical ranges.

No TPHg, TPHd or TPHfo was detected above laboratory reporting limits within any Landfill E monitoring wells during the First Quarter 2007.

Benzene was detected within the sample collected from monitoring well DAEGW03 at a concentration of 0.1 µg/L during the First Quarter 2007. No other VOC compounds were detected above laboratory detection limits within Landfill E monitoring wells during the First Quarter 2007.

No PAHs, OCPs, or PCBs were detected within any of the groundwater samples collected from Landfill E monitoring wells during the First Quarter 2007.

Several metals (cadmium, nickel and chromium) were detected above Landfill E cleanup levels during the First Quarter 2007. With the exception of nickel within DAEGW05, the metals concentrations detected were within historical ranges.

MBAS were not detected above laboratory detection limits within any of the wells sampled. Total hardness concentrations were within historical range.

Molybdenum was detected in the QC duplicate sample DAEGW104CL during the First Quarter 2007 at a concentration of 2.34 µg/L. This detection was below the reporting limit used for the primary and duplicate samples of 5 µg/L.

E.1.2.8 Landfill 4 (Appendix A-8)

No groundwater cleanup levels were exceeded for the fourth consecutive groundwater monitoring event at LF 4. If no groundwater cleanup levels are exceeded during the Third Quarter 2007 sampling event, this site will be recommended for closure.

E.1.2.9 Fill Site 5 (Appendix A-9)

Post-remediation groundwater cleanup levels from the Fill Site 5 RAP were met for the required frequency of monitoring within monitoring wells 1349MW03R, 1349MW101, and 1349MW102, prior to the First Quarter 2007. Therefore, no samples were proposed for the First and Second Quarters 2007 at Fill Site 5, in accordance with the proposed sampling plans (Tables 1A and 1B). The Fill Site 5 wells will remain in place until regulatory site certification is received. Wells required for the Building 1349 corrective action will remain in-place and be monitored per the Final Building 1349 CAP. The Building 1349 corrective action is scheduled to begin in the Fall of 2007.

E.1.2.10 Building 231/207 Area (Appendix A-10)

Monitoring well 231MW09 was the only monitoring well purged and sampled during the First Quarter 2007. All Building 231/207 Area monitoring wells and piezometers were sampled during the Second Quarter 2007.

The majority of detected analytes were within historical bounds during the First and Second Quarters 2007.

TPHg and TPHd concentrations downgradient of Building 231 continue to exceed cleanup levels and to fluctuate within historical bounds in Building 231/207 Area monitoring wells and piezometers. TPHfo was not detected in any sample collected from Building 231/207 Area monitoring wells or piezometers.

VOC concentrations within Building 231/207 Area monitoring wells and piezometers are relatively stable. Benzene was detected above its CAP-specified cleanup level within monitoring well 231GW22 and piezometers 231PZ01, 231PZ02, 231PZ03, and 231PZ04. Ethylbenzene was detected above its CAP-specified cleanup level within monitoring well 231GW22 and piezometer 231PZ01. Total xylenes were detected above their CAP-specified cleanup level within monitoring well 231GW22.

The majority of new high and low dissolved metal detections were only slightly higher or lower than previous highs and lows. However, some CAP specified cleanup levels were exceeded during the Second Quarter 2007. Dissolved arsenic concentrations continue to be detected above the CAP-specified cleanup level (10 µg/L), in a number of wells. Cadmium concentrations exceeded the CAP-specified cleanup level of 1.0 µg within monitoring well 231GW20.

Dissolved copper was detected in the primary and duplicate samples from wells 231GW13 and 231GW20 in exceedance of the CAP-specified cleanup level of 2.9 µg/L. In addition, dissolved copper was detected at new high concentrations of 3.8 and 1.7 µg/L within monitoring wells 231GW15, and 231GW25, respectively. This is the first time dissolved copper has been detected within these wells. The detected copper concentration within 231GW15 exceeded the CAP-specified cleanup level.

Concentrations of TPH and BTEX continue to exceed cleanup levels and should continue to be monitored within Building 231/207 Area monitoring wells. At some locations, relatively few groundwater samples have been collected for some dissolved metals and trends are not yet apparent.

The CAP for the Building 231/207 Area has recently been submitted to stakeholders for final review. Sampling at the Building 231/207 Area will continue on an annual basis until the CAP is implemented, which is currently scheduled to take place in the summer of 2008.

E.1.2.11 Building 1065/1027 Area (Appendix A-11)

TPH and VOCs were not detected above CAP-specified cleanup levels in any samples collected during the First or Second Quarters 2007.

Dissolved arsenic continues to be detected at concentrations exceeding the CAP-specified cleanup level (10 µg/L) within 1065PZ1A, 1065PZ4A, 1065PZ5AR, and 1065MW101A.

Four wells were abandoned (1065PZ1A, 1065PZ1B, 1065MW9A, and 1065MW9B) and one new well was installed (1065MW103A), prior to the Second Quarter 2007, in accordance with the *Corrective Action Implementation Work Plan Building 1065 Area* (MACTEC, 2007c). Monitoring well 1065MW103A was installed after the First Quarter 2007, and was sampled for the first time in the Second Quarter 2007. No significant detections were observed in 1065MW103A during the Second Quarter 2007.

The final CAP for the Building 1065 Area was approved in January 2007. Construction based on the CAP is anticipated to begin during summer 2007. Monitoring will continue following remediation in accordance with the Final CAP.

E.1.2.12 Mini-CAP Areas (Appendix A-12)

Groundwater cleanup levels for benzene, 1,2-dichloroethane and chromium were exceeded in groundwater samples collected from monitoring well 1213GW101 during either the First and/or Second Quarters 2007.

All First and Second Quarter 2007 samples were analyzed for PAHs. Fluoranthene continues to be detected at low levels in 514AGW101 and FM14EX07GW101. However, the detected concentrations were well below the cleanup level for fluoranthene of 300 µg/L.

No TPHg, TPHd or TPHfo was detected within any of the wells sampled during the First and Second Quarters 2007.

E.1.2.13 Nike Missile Facility (Appendix A-13)

Groundwater elevations, gradients, and flow directions during the First Quarters 2007 are consistent with historical values and interpretations. NDMA was detected in all four of the groundwater samples collected from Nike Missile Facility monitoring wells sampled during the First Quarter 2007. The NDMA concentrations were all below the RAP-specified cleanup level of 0.01 µg/L.

The *Final Remedial Action Plan, Baker Beach Disturbed Areas 1, and 2A, and Twenty-Six Other Sites* (RAP3) (MACTEC, 2007a), was released in June of 2007. The Nike Missile Facility will be sampled in accordance with RAP3 upon its implementation, which is scheduled to take place in the summer of 2008.

E.1.2.14 Baker Beach Disturbed Area 3 (Appendix A-14)

Post-remediation monitoring at BBDA 3 began in December 2004 in accordance with the Final RAP. Data will continue to be reviewed on a quarterly basis to determine if modifications to the sampling program should be made. The First and Second Quarters 2007 were the tenth and eleventh monitoring events conducted at BBDA 3, since the new groundwater monitoring network was installed in December 2004.

Nitrate and sulfate concentrations within BB3GW100 were significantly higher than previous detections within this well and appear to be anomalous. Future detections will be monitored to see if a new trend develops or if these results are anomalous.

No other significant trends were identified during the First and Second Quarters 2007 at BBDA 3. Future detections and trends will continue to be monitored and evaluated in accordance with the RAP.

E.1.2.15 Landfill 10 (Appendix A-15)

During the First Quarter 2007, TPHd and TPHfo were detected within seep LF10SP01 at concentrations of 22,000 and 14,000 µg/L, respectively. These concentrations were approximately ten times the levels detected in Fourth Quarter 2006. It was noted by the laboratory that the Fourth Quarter 2006 and First Quarter 2007 results did not exhibit a fuel pattern resembling the standard. Further investigation into the sampling protocols used during the Fourth Quarter 2006 and First Quarter 2007 revealed that samples from LF10SP01 were not collected in accordance with the project SOPs and therefore, additional sampling was performed on 11 May 2007 between First and Second Quarters 2007.

During the Second Quarter 2007, LF10SP01 was sampled in accordance with the SOP. TPHd was detected above the reporting limit at a concentration of 210 µg/L. This detection was qualified by the laboratory as not matching the standard for TPHd. In an effort to identify the compounds contributing to the TPHd quantification and the anomalous hydrocarbon pattern, the laboratory was asked to run the extract by GC/MS. Three compounds were identified in the extract by GC/MS: hexacosane (the surrogate used for the TPHd extraction), alpha-pinene, and aromadendrene. No other compounds were identified.

Alpha-pinene and aromadendrene are of a chemical class called terpenoids, which are naturally-occurring and are known to exist in eucalyptus oil. The sample location is adjacent to a large eucalyptus tree with numerous eucalyptus leaves on the ground and also in the creek. Based on these results, it appears that the TPHd quantification may be a result of these naturally-occurring terpenoids present in eucalyptus leaves.

MTBE was detected for the sixth time in monitoring well LF10GW100 during the First Quarter 2007 at a concentration of 10.0 µg/L. Clear trends in MTBE concentrations or geographic distribution have not been identified and this detection may not represent an impact to groundwater from Landfill 10.

No BTEX was detected above the laboratory's reporting limit within Landfill 10 monitoring wells during the First Quarter 2007.

The majority of dissolved metal results were within the range of previously detected concentrations for Landfill 10. Dissolved chromium within LF10GW01 was the only dissolved metal detected above its cleanup level during the First Quarter 2007.

Several total metals results for LF10SP01 were significantly higher than previously detected concentrations. Total aluminum, arsenic, barium, iron, manganese, nickel, and vanadium were all detected at concentrations during the First Quarter 2007, which are significantly higher than previous concentrations for this location.

The Trust is currently preparing RAP4 and designing new remedial actions for the Landfill 10 and 8 sites. Landfill 10 data will continue to be reviewed and sampling will be adjusted as necessary during preparation of the RAP4. RAP4 is scheduled to be completed in the summer of 2008.

E.1.2.16 Commissary/PX Exchange Area (Appendix A-16)

TPH concentrations were generally within historical ranges at the Commissary/PX Area during the Second Quarter 2007, with the exception of TPHfo which was detected for the first time within seep 610SP01 at a concentration of 490 µg/L. No TPH detections exceeded CAP cleanup levels.

Toluene was detected for the first time within 610GW103 at a concentration of 0.66 µg/L, during Second Quarter 2007. Toluene has not previously been detected at this location. MTBE was detected at 2.6 µg/L in well 610MW101. No toluene or MTBE detections exceeded CAP cleanup levels.

The majority of dissolved metal concentrations were within historical ranges and were also below their applicable CAP-specified cleanup levels. Arsenic was the only metal detected above its CAP-specified cleanup level. Arsenic was detected at a new high concentration of 28 µg/L within 610SP01 during the Second Quarter 2007.

Total metals were only analyzed within seep 610SP01 during the Second Quarter 2007. All concentrations of total metals were significantly higher than the historical results, however, CAP-specified cleanup levels do not apply to total metals concentrations.

Groundwater monitoring at the Commissary/PX Area will continue to be conducted in accordance with the Revised Final CAP.

E.1.2.17 Baker Beach Disturbed Areas 1 and 2A (Appendix A-17)

BBDAs 1 and 2A were added to the Presidio-Wide Groundwater Monitoring Program beginning First Quarter 2006. The First and Second Quarters 2007 were the fifth and sixth expanded monitoring events conducted at BBDAs 1 and 2A, since the piezometers were installed in April 2005.

During the Second Quarter 2007, TPHfo was detected within BB1PZ100 at a concentration of 760 µg/L which exceeded the RAP cleanup level of 443 µg/L. Dissolved lead was detected within the sample collected from BB1PZ101 at a concentration (3.2 µg/L) in excess of its RAP-specified cleanup of 2.5 µg/L. Chrysene was detected at a concentration of 0.1 µg/L within BB1PZ101 which exceeded the RAP cleanup level of 0.0044 µg/L.

No other analytes were detected above cleanup levels during the First and Second Quarters 2007.

The remedial excavation began following the Second Quarter 2007. No further sampling is scheduled for BBDAs 1 and 2A until the remedial excavation has been completed. If fresh water seeps are present following the remedial action, then monitoring will resume.

SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2007
PRESIDIO-WIDE GROUNDWATER MONITORING PROGRAM
Presidio of San Francisco, California

1.0 INTRODUCTION

This Semi-Annual Groundwater Monitoring Report for the First and Second Quarters 2007 of the Presidio-Wide Groundwater Monitoring Program has been prepared by Treadwell & Rollo, Inc. (Treadwell & Rollo) for The Presidio Trust (Trust). During the First and Second Quarters 2007, 17 sites at the Presidio of San Francisco (Presidio) were included in the groundwater monitoring program, as shown on Figure 1. Although the Presidio is currently under the jurisdiction of the Trust and the National Park Service (NPS), the Trust is managing the Presidio-wide Groundwater Monitoring Program.

This report describes the groundwater elevation monitoring and sampling methods used, summarizes the laboratory analytical procedures and results, and presents the results of the quality assurance and quality control (QA/QC) and data validation activities for samples collected during the First and Second Quarters 2007. This report also summarizes historical sampling data previously collected by others. The groundwater monitoring, laboratory, and data validation methods and procedures used by others during historical sampling events have been discussed in previous quarterly groundwater monitoring reports (Montgomery Watson, 1996c, 1999a-n, 2000; Treadwell & Rollo, 2001b, 2002b, 2002d, 2002f, 2002g, 2002h, 2003e, and 2004c).

The Trust worked with the United States Environmental Protection Agency (EPA), California Environmental Protection Agency, Department of Toxic Substances Control (DTSC), Regional Water Quality Control Board, San Francisco Bay Region (RWQCB), and Restoration Advisory Board (RAB) representatives to develop the Cleanup Levels Document. The *Development of Presidio-Wide Cleanup Levels for Soil, Sediment, Groundwater, and Surface Water* (Cleanup Levels Document) summarizes the derivation of human health and ecological cleanup for soil, sediment, groundwater, and surface water, and the development of soil background metal concentrations at the Presidio (Erler & Kalinowski, Inc. [EKI], 2002; Revised 2006). The original Cleanup Level Document dated October 2002 was revised in May 2006. Table 7-6 of the Cleanup Level Document (*Cleanup Levels for Surface Water, Seep and Groundwater at the Presidio of San Francisco*) was revised at this time. The document also presents the proposed methodology for determining Presidio-specific cleanup levels based on the protection of human health and ecological receptors for chemicals that may potentially be encountered in soil, sediment, and water at the Presidio (EKI, 2002; Revised 2006). These cleanup levels were developed to be applied to new decision documents for chemical release sites within the Presidio.

Cleanup of petroleum program sites, such as the Commissary/Post Exchange (PX), must adhere to Site Cleanup Requirements (SCRs), per *Order No. R2-2003-0080, Revised Site Cleanup Requirements and Rescission of Order No. 91-082 and Order No. 96-070* (RWQCB, 2003). This Order requires that the Presidio-Wide Quarterly Groundwater Monitoring Program report monitoring activities and findings, and publish chemical concentration plume maps of appropriate contaminants of concern semi-annually. This report is intended to comply with the requirements of the Order.

1.1 Report Organization

This report is organized as described below.

- The Executive Summary presents a brief, concise synopsis of the most significant changes to the monitoring program and any significant findings, observations, and recommendations.
- The Main Body of the report presents the project background, the geologic and hydrogeologic setting, the groundwater monitoring procedures, the laboratory analyses, and the QA/QC procedures and findings. The main body of the report includes a site location figure and tables summarizing monitoring plans, sampling and analytical procedures and methods, and data validation procedures.
- Appendix A presents sections for each of the areas included in the program. Each section describes the site background and site-specific geologic and hydrogeologic setting, presents current and historical sampling results, and provides recommendations for modifications in future monitoring events, if necessary. Each site section contains site-specific figures, tables summarizing analytical results, and monitoring well purge records.
- Appendix B contains completed equipment calibration forms.
- Appendix C contains groundwater-level measurement logs.
- Appendix D contains the laboratory analytical quality control (QC) reports for the First and Second Quarters 2007 prepared by DataVal, Inc. (DataVal), the project data validation firm. Appendix D is included in electronic form on a compact disk (CD).
- Appendix E contains Curtis & Tompkins, Ltd. (Curtis & Tompkins) laboratory analytical data reports. Curtis & Tompkins was the designated primary laboratory for the First and Second Quarters 2007. Appendix E is included in electronic form on a CD.

- Appendix F contains Columbia Analytical Services (CAS) laboratory analytical data reports. CAS was the QC laboratory designated to analyze the QC duplicate samples for the First and Second Quarters 2007. Appendix F is included in electronic form on a CD.

1.2 Field Sampling Plan

The groundwater monitoring activities documented in this report were performed in accordance with the *Field Sampling Plan, Presidio Groundwater Monitoring Project, Presidio of San Francisco, San Francisco, California* (FSP) (Treadwell & Rollo, 2001a) and the *Presidio-wide Quality Assurance Project Plan Sampling and Analysis Plan* (QAPP) (Tetra Tech, 2001). Any deviations from the FSP during the First and Second Quarters 2007 have been documented in Appendix A site-specific sections or where applicable. The FSP initially identified the groundwater elevation monitoring and sampling schedules, well locations, sampling procedures, and proposed analytical test methods. Currently, groundwater elevation monitoring and sampling schedules, well locations, sampling procedures, and proposed analytical test methods are identified on a quarterly basis in Table 1 of this report. Table 1 is submitted to the stakeholders for review and approval prior to sampling during each quarterly monitoring event.

Standard operating procedures (SOPs) were presented for required monitoring tasks and for optional tasks such as well abandonment, which may be performed within the scope of the groundwater monitoring program. The *Base-wide Groundwater Monitoring Plan* (BGMP) (Montgomery Watson, 1996c) and site-specific corrective and remedial action plans (CAPs and RAPs) were also consulted in preparation of this report.

Modifications to the FSP may be required if the scope of work is modified, or if there are substantial revisions to the QAPP. If modifications to the FSP are required, a letter will be prepared which will include a brief discussion of the proposed changes and copies of revised tables and figures. The letter will be submitted to the NPS and appropriate regulatory agencies for review and comment. Minor adjustments may be made to the monitoring program depending on field conditions, and those changes will be documented in field logs and reported in the semi-annual reports.

1.3 Groundwater Monitoring Objectives

The general objectives of the Presidio-wide Groundwater Monitoring Program, as presented in the FSP, are as follows:

- Monitor the lateral and vertical extent of groundwater contamination.
- Track contaminant concentration and migration to help evaluate impacts to potential beneficial uses of groundwater.

- Provide data on contaminant concentration and migration needed for studies to evaluate potential exposure pathways to human and ecological receptors.
- Improve understanding of the Presidio geology and hydrogeology.
- Validate, optimize, and evaluate the effectiveness of groundwater remedial measures.
- Evaluate whether remedial objectives have been met.
- Provide the information necessary to establish and update long-term monitoring strategies.
- Provide groundwater monitoring reports with defensible data in accordance with the QAPP, SOPs, site-specific remedial plans and decision documents, and applicable regulatory agency requirements.

Site-specific monitoring objectives are identified in the site-specific sections presented in Appendix A.

2.0 BACKGROUND

The United States Department of Defense, Department of the Army (Army) operated the Presidio as a military base until 1994, when the Army closed this base and transferred the Presidio's administrative jurisdiction to the NPS. As part of the Army's responsibilities under base closure legislation, the Army initiated certain actions to address environmental conditions at the Presidio, including instituting the BGMP. The Army retained Montgomery Watson to prepare the BGMP and to conduct the groundwater monitoring program.

The Trust was established following passage of the Presidio Trust Act in 1996. The Trust negotiated with the Army to assume the Army's environmental cleanup responsibilities in order to expedite the environmental remediation efforts. The Trust retained Montgomery Watson to continue the Groundwater Monitoring Program through the Third Quarter 2000 and retained Treadwell & Rollo to perform the Presidio-wide Groundwater Monitoring Program beginning with the Second Quarter 2001.

3.0 GEOLOGIC AND HYDROGEOLOGIC SETTING

Tectonic activity in the San Francisco Bay Area, and the Presidio specifically, has resulted in an irregular topography of near-surface and surficial bedrock (referred to as the Franciscan Formation). Throughout the Presidio, the Franciscan Complex consists mostly of serpentinite that is typically overlain by relatively permeable units of poorly consolidated or unconsolidated sediments. These units are defined as (from oldest to youngest): the Merced Formation, the Colma Formation, the West Valley Clay, and dune sand.

The Merced Formation is a discontinuous unit, composed primarily of clay with low hydraulic conductivity. The Colma Formation overlies the Merced Formation, and overlies the Franciscan Formation bedrock in areas where the Merced is absent. The Colma Formation consists of horizontally bedded, fine-grained, slightly silty sand. A local, discontinuous clay deposit of unknown origin, referred to as the West Valley Clay, has been observed in a layer up to 30 feet thick overlying the Colma Formation. Dune sands are the most recent continuous unit deposited across the Presidio. Dune sands generally overlie the Colma Formation, but may also overlie the Franciscan, Merced, or West Valley Clay where erosion of the Colma Formation has occurred. The dune sands are generally well sorted, fine- to medium-grained, and yellow-brown to light gray in color.

Previous investigations have identified three groundwater basins at the Presidio. These basins are the Lobos Creek Groundwater Basin, the Coastal Bluffs Groundwater Basin, and the Marina Groundwater Basin (Figure 1). The Lobos Creek Groundwater Basin includes Lobos Creek, the principle perennial stream at the Presidio. The Marina Groundwater Basin includes the West Valley, Northeastern, and the Crissy Field Groundwater Areas (Montgomery Watson, 1996c). The Coastal Bluffs Groundwater Basin is not subdivided into groundwater areas.

The Lobos Creek Groundwater Basin is underlain by the Franciscan Formation and substantial thicknesses of relatively permeable, unconsolidated units. Several groundwater wells within this basin were used to supply a portion (approximately 10 percent) of the water used for former Presidio operations.

The Marina Groundwater Basin is the largest of the three basins at the Presidio. As mentioned above, this basin includes three groundwater areas, based on their geographic location. The Marina Groundwater Basin is underlain by all of the geologic units identified at the Presidio.

The Coastal Bluffs Groundwater Basin is the smallest of the three groundwater basins and is predominantly underlain by relatively impermeable serpentinite rock (Franciscan Formation) with minor amounts of overlying permeable materials. Groundwater yields in this basin are expected to be extremely low.

The BGMP was prepared in 1996 and has been supplemented by subsequent site-specific investigations. Summaries of geologic and hydrogeologic conditions encountered at each sampling area are presented in Appendix A.

4.0 GROUNDWATER MONITORING

The scope of field work for this report included collecting groundwater elevation measurements and samples from groundwater monitoring wells, piezometers, and seeps or springs at 17 areas at the Presidio (Figure 1). Tables 1A and 1B identify the elevation monitoring, sampling, and analyses schedules for wells, piezometers, seeps, and springs at each area for the First and Second Quarters 2007, respectively. The 17 areas are:

1. Building 900s Area
2. Landfill 8
3. Fill Site 6
4. Battery Howe/Wagner
5. Building 1349 Area
6. Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, and Upgradient Wells
7. Landfill E
8. Landfill 4
9. Fill Site 5
10. Building 231/207 Area
11. Building 1065/1027 Area
12. Mini-CAP Areas
13. Nike Missile Facility
14. Baker Beach Disturbed Area 3
15. Landfill 10
16. Commissary/PX Area
17. Baker Beach Disturbed Areas 1 and 2A

4.1 Groundwater Elevation Monitoring

On 26 February and 4 June 2007, groundwater elevation measurements were collected at monitoring wells, piezometers, and seeps at 183 and 103 locations, respectively. Tables 2A and 2B summarize the groundwater elevation measurements collected during the First and Second Quarters 2007, respectively. Groundwater elevations were measured using a Slope Indicator

model #51453 or a Solinst model #101 water level meter. Copies of all field equipment calibration forms are included in Appendix B. A minimum of three measurements was taken at each well and recorded on the groundwater elevation log, as described in the SOPs. Copies of the groundwater-level measurement logs are included as Appendix C. The water level meters were decontaminated after each use by spraying them with an Alconox detergent solution, then rinsing with potable water, in conformance with the SOPs.

During the First Quarter 2007 groundwater elevation monitoring, two wells (HWGW102 and LF4GW101) were found to be dry. Two groundwater monitoring wells (1349MW102 and 1065PZ6A) were proposed for elevation monitoring during the First Quarter 2007, but these wells were not located. Four groundwater seeps (LF5SP100, DAESP03, BB2ASW100, and BB3SW104) were not flowing at the time of the groundwater elevation survey. Additionally, the Commissary/PX Area Final Corrective Action Plan (CAP) was being implemented during the First Quarter 2007, so no monitoring wells (600GW101 through 600GW109 and 610GW101 through 610GW103) or seeps (610SP01 and 610SP02) were measured in this area during the First Quarter 2007 sampling event. The conditions at these locations are identified in Table 2A.

During the Second Quarter 2006 groundwater elevation monitoring, four wells and piezometers (BB3PZ101, BB3PZ102, HWGW102 and LF4GW101) were found to be dry. Two groundwater monitoring wells (1349MW102 and 1065PZ6A) were proposed for elevation monitoring during the Second Quarter 2007, but these wells were not located. Four groundwater seeps (DAESP03, 610SP01, BB2ASW100, and BB3SW104) were not flowing at the time of the groundwater elevation survey. Two monitoring wells (1065MW9A and 1065MW9B) and two piezometers (1065PZ1A and 1065PZ1B) were abandoned prior to the Second Quarter 2007, as part of the Building 1065 Area Final CAP. The conditions at these locations are identified in Table 2B.

4.1.1 Groundwater Elevation Monitoring at Tidally Influenced Wells

During the First Quarter 2007, low and high tides were predicted to be at 2:02 PM and 6:33 AM on 26 February 2007, respectively. Observed low tide on 26 February 2007 was at 2:00 PM with a magnitude of 0.09 feet below Presidio Lower Low Water (PLLW). Observed high tide on 26 February 2007 was at 6:36 AM with a magnitude of 5.88 feet above PLLW. The First Quarter 2007 predicted and observed tidal times and magnitudes are presented in the notes on Table 2A.

During the Second Quarter 2007, low and high tides were predicted to be at 8:34 AM and 4:18 PM on 4 June 2007, respectively. Observed low tide on 4 June 2007 was at 8:48 AM with a magnitude of 0.72 feet below PLLW. Observed high tide on 4 June 2007 was at 4:00 PM with a magnitude of 4.48 feet above PLLW. The Second Quarter 2007 predicted and observed tidal times and magnitudes are presented in the notes on Table 2B.

During the First Quarter 2007, depth to groundwater measurements were collected between 2:10 PM and 2:52 PM on 26 March 2007 at the Building 900s Area, which the Trust has determined is minimally influenced by the tides. Figure 2A shows graphical tide plots for the Golden Gate Tidal Station on 26 February 2007.

During the Second Quarter 2007, depth to groundwater measurements were collected between 11:56 AM and 12:42 on 4 June 2007 at the majority of Commissary/PX Area monitoring wells, which the Trust has determined is tidally influenced. Monitoring well 610GW103 was mistakenly not measured with the other Commissary/PX Area monitoring wells and was subsequently measured at 2:20 PM on 4 June 2007. Additionally, seeps 610SP01 and 610SP02 were observed at 3:00 and 3:02 PM, respectively. Figure 2B shows graphical tide plots for the Golden Gate Tidal Station on 4 June 2007.

Varying degrees of tidal lag may exist at site wells, causing groundwater elevations within monitoring wells to vary and to not necessarily be synchronized to the tidal schedule. The "tidal lag" is the length of time between a tidal extreme and the maximum influence measured in a well. The distance inland from the nearest tidally influenced surface water body is used to determine the tidal lag. In a homogeneous aquifer, the tidal lag time should be directly proportional to the distance from the surface water body. Variations in the tidal lag may be due to aquifer heterogeneity or the presence of man-made structures. At Crissy Field, the shallow aquifer may be hydraulically connected to the tidal marsh, whereas the intermediate and deeper aquifer may be hydraulically connected to the San Francisco Bay, though these relationships have not been specifically characterized.

4.2 Groundwater Sampling

The equipment and methods described in the FSP are summarized below. Groundwater samples were collected in laboratory-supplied sample containers, sealed, labeled, and placed into ice chests containing a sufficient volume of ice to maintain a temperature of 4.0 degrees Celsius (^{O}C) for transport to the offsite analytical laboratories, in accordance with the methods described in the FSP. All samples were documented with chain-of-custody protocols, as described in the chain-of-custody SOP. The site-specific sections in Appendix A present details of well, piezometer, and seep sampling.

During the First Quarter 2007, three groundwater sampling crews purged and/or sampled 112 wells, piezometers, and groundwater seeps between 27 February and 7 March 2007. The following groundwater monitoring wells, piezometers and seeps were proposed for sampling during the First Quarter 2007, but did not contain a sufficient amount of water to complete a full/partial bottle set, were not flowing at the time sampling was attempted or had accessibility issues: DAEGW07, DAESP03, NKGW03, BB2ASW100, BB3GW101, BB3PZ101, BB3PZ102, BB3SW100, BB3SW101, BB3SW102, BB3SW104, HWGW102, and 1065PZ6A. Additionally,

the Commissary/PX Area monitoring locations 600GW101 through 600GW109, 610GW101 through 610GW103, and 610SP01 and 610SP02 were not sampled during the First Quarter 2007 due to the ongoing corrective action that was taking place at the time of sampling.

During the First Quarter 2007 monitoring event, the Trust requested that seep NKSW100 be sampled at the Nike Missile Facility and the analyses be conducted on a 24-hour rush turnaround time. The seep was sampled on 7 March 2007.

During the Second Quarter 2007, three groundwater sampling crews purged and/or sampled 53 wells, piezometers, and groundwater seeps between 4 June and 8 June 2007. The following groundwater monitoring wells, piezometers and seeps were proposed for sampling during the Second Quarter 2007, but did not contain a sufficient amount of water to complete a full/partial bottle set, were not flowing at the time sampling was attempted or had accessibility issues: 610SP02, DAESP03, BB2ASW100, BB3GW101, BB3PZ101, BB3PZ102, BB3SW100, BB3SW102, BB3SW104, and HWGW102.

4.2.1 Groundwater Purging Methods and Selection Criteria

The following sections describe the groundwater purging methods and selection criteria that were used during this quarter.

4.2.1.1 Groundwater Purging Methods

Two primary groundwater well purging methods, normal and low flow, were used during the First and Second Quarters 2007 and are described below. Tables 1A and 1B identify the sampling methods that were proposed for each well. If field conditions required any changes from the proposed methods, those changes are described in the site-specific summaries in Appendix A.

Normal – This method involves purging until three borehole volumes of groundwater have been extracted or until groundwater parameters have stabilized, which ever is greater. Table 3 identifies well construction details required to calculate the borehole volumes for each well. Table 4 shows the precalculated volume of water in a 1-foot section of various borehole and casing sizes. For low-yield wells that require slower pumping rates than would be used with the normal method, Tables 1A and 1B identify a "modified" normal method, which is the same as the normal method except that a maximum purging rate of 0.5 gallons per minute (gpm) is designated. If the well is able to sustain a 0.5 gpm purge rate, well purging is considered complete after groundwater parameters have stabilized. If a well is purged dry using the normal or modified purging methods, the groundwater level is allowed to recharge to within 80 percent of its pre-purging elevation prior to sampling. Additional details on this method are presented in the FSP.

Low Flow – This method involves purging at a rate as low as 0.02 gpm in order to minimize groundwater sample disturbance. Additional details on this method are presented in the FSP.

4.2.1.2 Groundwater Purging Method Selection Criteria

The Trust has determined which purging method to use at each well using the following selection criteria:

1. Whenever possible, wells should be purged using the normal method.

2. To help maintain data comparability, the purging method for a well should remain consistent from quarter to quarter except as noted below.

3. If a well is pumped dry or shows a significant drop in the groundwater elevation using the normal method and requires a slower pumping rate, the modified normal purge method will be used. This change to a slower pumping rate can be made during purging, depending upon groundwater recharge conditions.

4. If a well is pumped dry using the modified normal method and requires a slower pumping rate, the low-flow purge method will be used. This method requires specialized equipment and has the potential to affect data comparability, so changes to this method would only occur with Trust approval prior to future quarterly sampling.

5. When not conflicting with criteria 1 through 4, all wells at a single site screened in the same zone shall be purged using the same method.

4.2.2 Groundwater Sampling Methods

The sampling methods used following purging are described below.

4.2.2.1 Groundwater Sampling Methods After Normal Purging

Following normal purging, groundwater samples were collected using a new disposable bailer, a 2-inch-diameter Grundfos Redi-Flow™ or a peristaltic pump, and decanted into the appropriate laboratory-supplied containers. Monitoring wells that are sampled using either a 2-inch Redi-Flow™ or peristaltic pump may have dedicated tubing associated with them. Dedicated tubing is stored at the Central Magazine in new plastic bags after each use.

4.2.2.2 Groundwater Sampling After Low-Flow Purging

Following low-flow purging, groundwater samples were collected using either a peristaltic pump or a 2-inch Redi-Flow™ pump. Monitoring wells that are sampled using either a 2-inch

Redi-Flow™ or peristaltic pump may have dedicated tubing associated with them. Dedicated tubing is stored at the Central Magazine in new plastic bags after each use.

4.2.2.3 Sampling at Seeps

Eight and nine seep and fixed monitoring locations were identified for sampling as part of this program during the First and Second Quarters 2007, respectively (Tables 1A and 1B).

First Quarter 2007

A seep sample was collected from EPSP01 during the First Quarter 2007, in accordance with procedures presented in the FSP. Seep LF10SP01 was also sampled during the First Quarter 2007, as described below.

During the Fourth Quarter 2006 and the First Quarter 2007, the field team used a polyethylene container, typically used for general chemistry analyses, to transfer water from the seep (LF10SP01) to the TPHd and TPHfo sample bottles. This procedure does not comply with the FSP or surface water sampling SOP. As discussed below, the possible effect of the improper sampling techniques on the results was evaluated by collecting samples by both methods and evaluating the results.

Based on the inconsistent TPHd and TPHfo results (when compared to historical data), and the inappropriate sampling for TPH methods used in the Fourth Quarter 2006 and First Quarter 2007, additional sampling was performed on 11 May 2007 between First and Second Quarters 2007. Primary samples were collected using the SOP method and a duplicate sample (DUP0511071A) was collected following the method used during the Fourth Quarter 2006 and the First Quarter 2007 (samples were collected in polyethylene container then transferred to appropriate laboratory-supplied containers), in an attempt to determine if the elevated TPHd and TPHfo detections were caused by the sampling method and use of the polyethylene container. TPHd was detected above the reporting limit in the May 2007 primary sample at a concentration of 88 µg/L, but was not detected in the May 2007 duplicate sample. TPHg and TPHfo were not detected within either the primary or duplicate samples. First and Second Quarter 2007 TPHd and TPHfo results, along with additional sampling and analytical methods used to understand these results are discussed in Section 5.3 of Appendix A-15.

Seeps DAESP03, BB3SW104 and BB2ASW100 and BBDA 3 fixed surface water seep monitoring points BB3SW100, BB3SW101, and BB3SW102 were all dry or did not contain a sufficient amount of water for sampling during the First Quarter 2007.

In addition to the seep samples collected during the First Quarter 2007, the Trust requested that the Nike Swale seep (NKSW100) be sampled. This sample was not part of the original scope and was therefore, not included on Table 1A. The Nike Swale seep was sampled in the presence of Trust personnel. Discussions of the Nike Swale seep sampling is included in Appendix A Section A-13.

personnel. Discussions of the Nike Swale seep sampling is included in Appendix A Section A-13. Because spring and seep locations can change over time, the sample locations were initially identified by the Trust.

Second Quarter 2007

Two seep samples and one fixed monitoring point sample (610SP01, LF10SP01, and BB3SW101) were collected during the Second Quarter 2007, in accordance with procedures presented in the FSP. Seep 610SP01 was exposed and samples were collected by Blaine Tech, as they have been historically, by digging a small hole and allowing groundwater to seep into the depression. The water was then collected with a disposable bailer and placed in laboratory-supplied containers for analysis. Seep 610SP02 was not sampled during the Second Quarter 2007 because it was submerged.

Three BBDA 3 fixed surface water seep monitoring points BB3SW100, BB3SW101, and BB3SW102 were all dry or did not contain a sufficient amount of water for sampling during the Second Quarter 2007, with the exception of BB3SW101. A dissolved metals sample was the only sample collected from BB3SW101 during the Second Quarter 2007 due to insufficient water. These fixed monitoring points are purged prior to sampling, in accordance with the 'modified' method of sampling described in Section 4.2.2.1 above.

Seeps (DAESP03, BB3SW104 and BB2ASW100) were not sampled during the Second Quarters 2007 due to an insufficient amount of water.

4.3 Sample Preservation, Handling, and Transportation

Samples were collected in laboratory-supplied sample containers, sealed, labeled, and placed into an ice chest containing a sufficient volume of ice to maintain a temperature of 4.0 ^{O}C (plus or minus 2.0 ^{O}C) for transport to the offsite analytical laboratories, in conformance with procedures presented in the FSP. Temperature blanks were included in coolers for measurement by the laboratory upon receipt.

4.3.1 Sample Labels and Chain-of-Custody Documentation

Sample labels for each container were preprinted on adhesive paper prior to beginning sampling operations. Prior to sampling, each field team was designated a number (e.g., 1 through 4 in the case of four sampling teams) for the duration of the sampling event. The samples were identified according to the numbering scheme described in the FSP, with the following modifications.

- The FSP specified that trip blanks be identified as TB and the date. When multiple trip blanks were generated by different sampling crews on the same date, the number assigned to the field crew collecting the sample (1, 2, 3, or 4) and a letter (i.e., A, B, C, etc.), indicating which sample of the day it was for that team, were added to the sample identification to ensure that all trip blanks had unique identifications. For example, trip blank TB0227071A was the first trip blank collected on 27 February 2007 by field crew number 1.

- The FSP specified that duplicate samples be identified as duplicate (DUP) and the date. When multiple duplicate samples were generated by different sampling crews on the same date, the same labeling methodology described above for trip blanks was applied to the duplicates. The number assigned to the field crew collecting the sample and a letter (i.e., A, B, C, etc.), indicating which sample of the day it was for that team, were added to the sample identification to ensure that all duplicates had unique identifications. For example, duplicate sample DUP0605073A was the first duplicate sample collected on 5 June 2007 by field crew number 3.

After labeling, each sample's requested laboratory analyses were recorded on individually numbered triplicate chain-of-custody forms. The sample coolers and chain-of-custody forms were kept in the possession of the samplers or in a secure, locked location prior to pickup by the laboratory courier.

4.3.2 Filtration of Groundwater Samples for Metals Analyses

Beginning in the Second Quarter 2001 and through the Third Quarter 2002, all groundwater samples collected for dissolved metals analyses were filtered in the field with a 0.45-micron, Clearwater Engineering™ filter prior to being placed in preserved containers. For reasons discussed below in Section 5.4.3.4, a different brand of filter was selected beginning in the Fourth Quarter 2002.

Beginning in the Fourth Quarter 2002, all groundwater samples collected for dissolved metals analyses were filtered in the field with a 0.45-micron, high-capacity polyethersulfone QED Quickfilter™ prior to being placed in preserved containers. The filters were flushed with at least 200 milliliters of sample water prior to collecting the sample, which adheres to the manufacturer's instructions. For wells being analyzed for total dissolved solids (TDS), analyses were also performed using the filtered sample.

At DTSC's request and beginning in the Second Quarter 2003, both dissolved (filtered) and total (unfiltered) metals samples were collected at seep and fixed monitoring point locations. Total metals results are not representative of dissolved metal conditions in groundwater.

All dissolved metals samples collected during the First and Second Quarters 2007 were filtered using QED Quickfilters™.

5.0 LABORATORY ANALYSES

5.1 Analytical Methods

Table 5 lists the types of analyses, analytical methods, sample container types and volumes, preservatives used (if applicable), and the maximum allowable holding times prior to extraction for each analysis. The following carbon ranges were used for total petroleum hydrocarbon (TPH) analyses and are summarized in Table 5.

- TPH as gasoline (TPHg, carbon range C7–C12). This carbon range was specified by the QAPP.
- TPH as stoddard solvent (TPHss, carbon range C7-C12). TPHss analyses were added to the Presidio-wide Groundwater Monitoring Program beginning with the First Quarter 2004 at the request of the Trust. The carbon range for TPHss is not specified in the QAPP. TPHss is a specialized formulation of TPHg and is found in the same carbon range as TPHg. Laboratory quantification for TPHss is achieved by comparing the shape of the analytical chromatogram within the same carbon range as TPHg for a diagnostic combination of spikes.
- TPH as diesel (TPHd, carbon range C12–C24). This carbon range was specified by the QAPP.
- TPH as fuel oil (TPHfo, carbon range C24–C36). No carbon range for TPHfo was specified by the QAPP. At the request of the Trust, TPHfo is qualified by the laboratory using the TPH as motor oil (TPHmo) standard and the QAPP carbon range for TPHmo. This issue is discussed in more detail in Section 5.4.3.1.

Table 6 lists compounds of potential concern (COPC) identified in the QAPP and analytical reporting limits for COPCs in the groundwater monitoring program. Several water quality criteria are summarized in Table 6 for comparison with the laboratory reporting limits. The water quality criteria presented in Table 6 do not necessarily represent cleanup criteria for Presidio sites.

The analytical methods for some metals and polycyclic aromatic hydrocarbons (PAHs) were changed from those identified in the FSP in order to reach the lower reporting limits identified in the QAPP. The following changes, approved by the Trust, were made.

- Twelve metals (antimony, arsenic, barium, beryllium, cadmium, copper, chromium, cobalt, nickel, silver, thallium, and zinc) were analyzed using Environmental Protection Agency (EPA) Method 6020 instead of EPA Method 6010 as proposed in the FSP between the Second Quarter 2001 and the First Quarter 2003. Beginning in the Second Quarter 2003, seven of these metals (arsenic, barium, beryllium,

chromium, cobalt, nickel and zinc) were granted variance by the stakeholders from the QAPP reporting limits and were analyzed using EPA Method 6010.

- PAHs were analyzed using EPA Method 8310 instead of EPA Method 8270 as proposed in the FSP.

Four emergent chemicals (perchlorate, N-nitrosodimethylamine [NDMA], 1,4-dioxane and polybrominated diphenyl ether [PBDE]) were added to the First Quarter 2004 groundwater monitoring event at the request of the RWQCB. As listed on Table 5, analytical methods for the emergent chemicals are:

- Perchlorate, EPA Method 314.0;
- NDMA, EPA Method 1625;
- 1,4-dioxane, using EPA Method 8270C; and
- PBDE, EPA Method 1614.

NDMA was the only emergent chemical analyzed during the First Quarter 2007. No samples were analyzed for the four emergent chemicals during the Second Quarter 2006.

Three new analyses (total organic carbon [TOC], dissolved gases [methane, ethane, and ethane], and arsenic III and V speciation) were added to the Presidio Groundwater Monitoring Program during the Fourth Quarter 2004. Analytical methods used for these new analyses are listed in Table 5 and below:

- TOC, EPA 415.2;
- Dissolved gases, RSK 175; and
- Arsenic III and V speciation, Draft EPA 1632 Modified.

TOC, Arsenic III and V speciation and dissolved gases analyses were not conducted during the First and Second Quarters 2007 and will not be included as a part of the Presidio Groundwater Monitoring Program in future quarters as it is no longer required to evaluate groundwater redox conditions at the Site.

5.2 Analytical Data Delivery Methods

The analytical laboratories submitted all analytical reports in paper and electronic formats to Treadwell & Rollo. Both the electronic and paper copies were forwarded to DataVal. DataVal reviewed both the electronic and paper data, and prepared three Data Validation Summary

Reports dated 16 March 2007 (DataVal, 2007a), 7 May 2007 (DataVal, 2007b) and 15 August 2007 (DataVal, 2007c). The reports entitled, *Data Validation Summary Report for the Nike Seep Sampling Event, The Presidio of San Francisco, CA, Data Validation Summary Report for the First Quarter 2007, Groundwater Monitoring, Presidio of San Francisco, CA* and *Data Validation Summary Report for the Second Quarter 2007, Groundwater Monitoring, Presidio of San Francisco, CA*, respectively, are discussed in Section 6.1 and attached as Appendix D.

5.3 Analytical Results

The tables in this report that present new analytical data were generated from laboratory-supplied electronic data deliverables (EDDs), after the EDDs had been validated by DataVal and imported into the project database. Analytical summary tables were prepared for each site and are presented in Appendix A.

5.4 Analytical Data Comparability

One of the goals of this Groundwater Monitoring Program has been to establish standards for groundwater sampling and analytical methods that provide a high degree of data comparability among different wells throughout the Presidio, and between the current and historical data collected at the same well. The primary variables that can influence data comparability are the field methods, sampling methodology, the types of analyses performed, and the analytical methods used by the laboratory. These issues are discussed below.

5.4.1 Field Methods

To assist with data comparability, the FSP established Presidio-wide standard well purging and sampling methods, and criteria for selecting purging methods, as described in Section 4.2. The selection criteria include evaluating the historical purging and sampling methods at a particular well and at other wells within a single site.

To assist with comparability of data collected from direct-reading field instruments, this program has attempted to employ similar methods and instrumentation at wells purged using the same method.

5.4.1.1 Dissolved Oxygen

Dissolved oxygen (DO) results are discussed in the individual site-specific sections in Appendix A. In general, wells purged with the low-flow method used an in-line oxygen probe. Wells purged with the normal method have used a downhole oxygen probe since the Third Quarter 2001. During the Second Quarter 2001, DO was recorded with either a downhole probe or a surface instrument in wells purged with the normal method. The surface instrument

generally recorded higher DO concentrations than the downhole instrument because of water turbulence caused by collecting the sample with a bailer.

Beginning in the Second Quarter 2002, in an effort to increase the accuracy and precision of the DO measurements being collected in the field, the following practice was implemented.

The down-hole DO meter probe is slowly lowered to the middle of the screened interval in each well before recording the DO measurement. This protocol ensures that the relatively disturbed and aerated water near the top of the water column is not measured. This protocol does not apply to wells sampled using the low flow sampling method, because those wells are measured using a flow-through-cell at the surface.

This protocol has produced significantly more stable, and generally lower, DO measurements when compared to historical values.

5.4.2 Analytical Suite

To assist with data comparability, the analytical suite for each well was selected for consistency with previous analyses conducted by others. Additionally, analytes were added to provide greater consistency with the analytical suite for all wells at a site and with wells at adjacent sites.

5.4.3 Analytical Methods

To assist with data comparability, the laboratory analytical methods used, beginning in the Second Quarter 2001, generally remained the same between subsequent quarters, and these methods were similar to most of the methods previously used by others. A significant change from previous TPH analyses was the introduction of carbon ranges specified in the QAPP that differ from previous ranges. Additional significant changes from previous analytical methods involved PAH compounds and 12 metals, as described in Section 5.1.

5.4.3.1 TPH Analyses

The TPH analytical methods used during the First and Second Quarters 2007 are the same as those used in recent quarterly sampling events. However, historical TPHfo analyses used a carbon range of C_{24}-C_{36}, which the QAPP states should be called TPHmo. During the Second and Third Quarters 2001, TPH within the C_{12}-C_{50} and C_{24}-C_{36} carbon ranges were reported as TPHfo and TPHmo, respectively. Beginning in the Fourth Quarter 2001, TPH within the C_{24}-C_{36} carbon range is reported as TPHfo in order to conform with the reporting convention used prior to the Second Quarter 2001.

It is a standard procedure in this monitoring program to use silica gel cleanup EPA Method 3630A to remove non petroleum-based hydrocarbons in all TPHd, TPHmo, and TPHfo analyses.

For Third Quarter 2001, EPA Method 3630A was requested for all TPHd, TPHmo, and TPHfo analyses on the chain-of-custody forms, but the primary laboratory mistakenly did not perform the silica gel cleanup for most of these analyses. For Second Quarter 2002, the QC laboratory mistakenly did not perform the silica gel cleanup for the sample from monitoring well 937GW42. Performing TPH analyses without using a silica gel cleanup to remove non petroleum-based hydrocarbons can lead to elevated TPH concentrations, due to the quantification of naturally occurring hydrocarbons as TPH. This is especially true for sites underlain by material with very high organic content, such as the shallow Bay Mud present in portions of Crissy Field. Previous groundwater monitoring reports have described this issue and presented justification for why the TPH detections in samples run without the silica gel cleanup are not representative of petroleum-based hydrocarbons, and why this data is not being relied upon (Treadwell & Rollo, 2002b, 2002d, 2002f, 2002g, 2002h).

All of the samples with detections of TPHd, TPHfo, and TPHmo, which were not run with the silica gel cleanup, were qualified with an 'NJ' by DataVal. The USEPA National Functional Guidelines for Organic Data Review defines 'NJ' as follows: "The analysis indicates the presence of an analyte that has been 'tentatively identified' and the associated numerical value represents its approximate concentration."

As requested by the Trust, monitoring well 1047MW100 was sampled for TPH as Stoddard solvent (TPHss) beginning in Fourth Quarter 2003.

5.4.3.2 Xylene Analyses

Beginning in the Fourth Quarter 2001, xylenes were reported as total xylenes in order to conform to the reporting convention used prior to the Second Quarter 2001. During the Second and Third Quarters 2001, xylenes were reported as m,p-xylenes and o-xylenes, because the QAPP identified reporting limits for these compounds only and not for total xylenes. The sum of the concentrations of m,p-xylenes and o-xylenes is equivalent to total xylenes. The reporting limit for total xylenes is 0.5 micrograms per liter (µg/L), the same as currently being used for the two xylene compounds.

5.4.3.3 PAH Analyses

The new method used for PAH compounds beginning in the Second Quarter 2001 (EPA Method 8310) has lower detection limits than the previous method (EPA Method 8270). EPA Method 8310 analytical data generally confirms historical findings that detectable concentrations of PAHs are not present at most sites.

5.4.3.4 Metals Analyses

The new method used to analyze 12 metals beginning in the Second Quarter 2001 (EPA Method 6020) has lower detection limits than the previous analytical method (EPA Method 6010). A description of the differences between these methods was included in previous reports (Treadwell & Rollo, 2002d, 2002f).

Results using EPA Method 6020 showed detectable concentrations of some metals for the first time in some wells, such as antimony and arsenic, beginning in the Second Quarter 2001. For metals such as antimony and arsenic, the detected concentrations were generally lower than the historical reporting limits. Analytical results measured between the Second Quarter 2001 and the Third Quarter 2002 indicated that some zinc concentrations and the majority of barium concentrations were higher than historically reported.

The reason for the increases in barium and zinc concentrations between the Second Quarter 2001 and the Third Quarter 2002 was determined to be a result of the brand of filter used, as discussed in the *Semi-Annual Groundwater Monitoring Report, First and Second Quarters 2004* (Treadwell & Rollo, 2004d).

5.4.3.5 BTEX/MTBE Analyses

Benzene, toluene, ethylbenzene and xylenes (BTEX) and methyl tertiary-butyl ether (MTBE) analysis through the Second Quarter 2007 have been run by EPA Method 8020/8021. This method has a potential for false detections. This is especially true of 8020 in which a photoionization detector (PID) is used. The PID is not selective enough and responds to hydrocarbons of all types, not just aromatic hydrocarbons. During the First Quarter 2007, two equipment rinsate blanks had detectable concentrations of MTBE. Additionally, MTBE has sporadically been detected at low concentrations across the Presidio at varying concentrations. These sporadic detections may be associated with false detections associated with EPA Method 8020/8021. Beginning with the Third Quarter 2007, BTEX/MTBE will be analyzed by EPA Method 8260B and the results will be evaluated against historical 8020/8021 results.

6.0 QUALITY ASSURANCE, QUALITY CONTROL, AND DATA VALIDATION

The QA/QC program for this project is designed to verify that the information presented in this report is based upon accurate and reliable laboratory analytical data. The program includes the collection and analyses of many types of QA/QC samples, including duplicates (Table 7), equipment rinsate blanks (Table 8), trip blanks (Table 9) source water blanks (Table 10), and running matrix spike/matrix spike duplicate (MS/MSDs) to ensure that the analytical laboratories perform and document all required calibrations and internal QA/QC procedures.

Overall, the project data quality objectives have been met for the First and Second Quarters 2007. Where data have required qualification, a discussion is provided in each quarterly data validation report and in each site-specific section. The following sections describe the data validation procedures and the results of the QA/QC sample evaluation for both the First and Second Quarters 2007.

6.1 Data Validation

Data validation reports dated 16 March 2007 (DataVal, 2007a), 7 May 2007 (DataVal, 2007b) and 15 August 2007 (DataVal, 2007c) entitled, *Data Validation Summary Report for the Nike Seep Sampling Event, The Presidio of San Francisco, CA, Data Validation Summary Report for the First Quarter 2007, Groundwater Monitoring, Presidio of San Francisco, CA* and *Data Validation Summary Report for the Second Quarter 2007, Groundwater Monitoring, Presidio of San Francisco, CA*, respectively, are attached as Appendix D. The DataVal report for the Nike seep was completed on a rush turn around at the request of the Trust and was therefore, reported separately.

The reports evaluate the relative percent difference (RPD) for the duplicate samples from Curtis & Tompkins (C&T) and QC duplicates from Columbia Analytical Services (CAS), and the following QC data (where applicable) for each analytical method.

- Reporting limits
- Holding times
- Target blanks
- Gas chromatograph/mass spectrometer equipment tunes
- Initial equipment calibration
- Continuing equipment calibration
- Matrix spike/matrix spike duplicate
- Laboratory control samples
- Surrogate recoveries
- Internal standards

The following data validation qualifiers used by DataVal and shown in our tables are those recommended in USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (EPA, 1999).

U The analyte was analyzed for, but was not detected above, the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

Jb The analyte was identified below the laboratory reporting limit but above the laboratory method detection limit and QAPP-specified reporting limit.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet QC criteria. The presence or absence of the analyte cannot be verified.

Table 11 summarizes the data qualifiers used during these events and previous Treadwell & Rollo sampling events.

6.2 Quality Assurance and Quality Control Sampling

Field QC samples include duplicates, QC duplicates, equipment rinsate blanks, field blanks, and trip blanks. The following sections summarize the QA/QC samples that were collected during the First and Second Quarters 2007.

6.2.1 Duplicate Samples

Duplicate groundwater samples were collected on a minimum schedule of 1 duplicate per 10 samples (10 percent) for the primary laboratory (Curtis & Tompkins), and 1 duplicate per 20 samples (5 percent) for the duplicate QC laboratories (CAS). Duplicate groundwater samples were collected using the same methods as the primary samples, as described in the FSP. The duplicate samples were analyzed for the same suite of analytes as the primary samples.

First Quarter 2007

For the First Quarter 2006, 112 primary samples were collected for analyses. Fifteen duplicate samples (13 percent) were analyzed by the primary laboratory and seven QC duplicate samples (6 percent) were analyzed by the QC duplicate laboratory (CAS). The relative percentages of duplicate and QC duplicate samples collected are typically higher than the QAPP requirements in order to attain sufficient duplicates for each analysis. Table 7 summarizes the sample identifications and analyses for the duplicate samples. The analytical results for the duplicates are presented in the site-specific analytical tables in Appendix A.

Second Quarter 2006

For the Second Quarter 2006, 53 primary samples were collected for analyses. Eight duplicate samples (15 percent) were analyzed by the primary laboratory and four QC duplicate samples (8 percent) were analyzed by the QC duplicate laboratory (CAS). The relative percentages of duplicate and QC duplicate samples collected are typically higher than the QAPP requirements in order to attain sufficient duplicates for each analysis. Table 7 summarizes the sample identifications and analyses for the duplicate samples. The analytical results for the duplicates are presented in the site-specific analytical tables in Appendix A.

6.2.1.1 Duplicate Sample Analytical Results

The field and primary laboratory duplicate precision was evaluated by collecting duplicate samples, as described in the FSP, submitting the samples blind to Curtis & Tompkins for analyses, and then calculating the RPD between the detected results in the sample and its duplicate. This evaluation assumes that the water sample collected from a well is homogenous.

The control limit of 50 percent or less was used for the RPDs to determine whether project data quality objectives were being met. RPDs are calculated for two samples by subtracting the concentration of Sample One from the concentration of Sample Two and then dividing this result by the average of the two concentrations.

Nike Seep – First Quarter 2007

The overall correlation of analytical results met project data quality objectives.

First Quarter 2007

The overall correlation of analytical results met project data quality objectives. Analytes in each duplicate pair met the RPD control limit requirements, except for the following:

- In field duplicates 1065PZ7A and DUP0227072B the RPD between the detected results failed the 50% acceptance criteria for MTBE at 124%.
- In field duplicates LF01GW04 and DUP0228071A, the absolute difference between the results was greater than the 100 µg/L reporting limit for dissolved iron. The original result was non-detect at 100 µg/L and the duplicate result was 390 µg/L.
- In field duplicates 1047MW101 and DUP0301072A, the absolute difference between the results was greater than the 10 µg/L reporting limit for total dissolved solids. The original result was non-detect at 10 µg/L and the duplicate result was 88 µg/L.
- In field duplicates 1349MW01 and DUP0301073A the RPD between the detected results failed the 50% acceptance criteria for dissolved copper at 155%.
- In field duplicates 1349MW100 and DUP0301073B the RPD between the detected results failed the 50% acceptance criteria for TPHg at 64%.
- In field duplicates 1349MW100 and DUP0301073B, the absolute difference between the results was greater than the 300 µg/L reporting limit for TPHfo. The original result was non-detect at 300 µg/L and the duplicate result was 670 µg/L.
- In field duplicates 1349MW100 and DUP0301073B, the absolute difference between the results was greater than the 0.05 µg/L reporting limit for gamma-chlordane. The original result was non-detect at 0.05 µg/L and the duplicate result was 0.5 µg/L.
- In field duplicates 1349MW100 and DUP0301073B, the absolute difference between the results was greater than the 0.97 µg/L reporting limit for acenaphthene. The original result was non-detect at 0.97 µg/L and the duplicate result was 3.8 µg/L.
- In field duplicates 1349MW100 and DUP0301073B the RPD between the detected results failed the 50% acceptance criteria for anthracene, fluoranthene, pyrene, and chrysene at 62%, 57%, 76%, and 67%, respectively.
- In field duplicates 1349MW100 and DUP0301073B, the absolute difference between the results was greater than the 0.1 µg/L reporting limit for benzo(a)anthracene. The duplicate result was non-detect at 0.1 µg/L and the original result was 1.9 µg/L.
- In field duplicates NKGW02 and DUP0306071C, the absolute difference between the results was greater than the 1 µg/L reporting limit for dissolved copper. The original result was non-detect at 1 µg/L and the duplicate result was 2.4 µg/L.
- In field duplicates BHWGW04 and DUP0306073A, the absolute difference between the results was greater than the 1 µg/L reporting limit for dissolved antimony. The duplicate result was non-detect at 1 µg/L and the original result was 2.2 µg/L.
- In field duplicates BHWGW04 and DUP0306073A the RPD between the detected results failed the 50% acceptance criteria for dissolved copper at 146%.

The *Data Validation Summary Report for the Presidio Trust Groundwater Monitoring* (DVSR) First Quarter 2007 (Appendix D) discusses the duplicate sample RPD results, the analytical results and RPD calculations (Table 3). Data was not qualified by DataVal due to RPD failure of duplicate samples because the effect on the quality of the data is not known (DataVal, 2007b).

Second Quarter 2006

The detected results of the original sample and the associated duplicate sample were compared and the calculated RPDs reported. All analytes in each duplicate pair met the RPD control limit requirements, except for the following:

- In field duplicates 231GW20 and DUP0605072A, the RPD between the detected results failed the 50% acceptance criteria for alkalinity at 54%.
- In field duplicates 231GW20 and DUP0605072A, the RPD between the detected results failed the 50% acceptance criteria for TDS at 73%.
- In field duplicates 231GW13 and DUP0605072B, the RPD between the detected results failed the 50% acceptance criteria for dissolved copper at 130%.
- In field duplicates 1349MW100 and DUP0606073A, the RPD between the detected results failed the 50% acceptance criteria for TPHg at 108%.
- In field duplicates 1349MW100 and DUP0606073A, the RPD between the detected results failed the 50% acceptance criteria for alkalinity at 65%.

The DVSR Second Quarter 2007 (Appendix D) discusses the duplicate sample RPD results, the analytical results and RPD calculations (Table 3). Data was not qualified by DataVal due to RPD failure of duplicate samples because the effect on the quality of the data is not known (DataVal, 2007c).

6.2.1.2 Quality Control Duplicate Sample Analytical Results

The laboratory-to-laboratory duplicate precision was evaluated by collecting QC duplicate samples and submitting the primary duplicate sample to Curtis & Tompkins and a QC duplicate sample to CAS. All the QC duplicate samples submitted the QC laboratory had the same sample identification as the primary sample, with a "CL" added to the end. The relative precision was evaluated by calculating the RPD between the detected results in the duplicate sample and its QC duplicate. This evaluation assumes that the water sample collected from a well is homogenous.

The control limit of 50 percent or less was used for the RPDs to determine whether project data quality objectives were being met.

First Quarter 2007

The overall correlation of analytical results between the two laboratories met project data quality objectives. All analytes in each duplicate pair met the RPD control limit requirements, except for:

- In QC split duplicates 1047MW101 and 1047MW101CL, the absolute difference between the results was greater than the 10 mg/L reporting limit for TDS. The original result was non-detect at 10 mg/L and the duplicate results was 52 mg/L.
- In QC split duplicates 1349MW01 and 1349MW01CL, the RPD between the reported results failed the 50% RPD acceptance criteria for dissolved copper and zinc at 155% and 186%, respectively.
- In QC split duplicates 1349MW01 and 1349MW01CL, the absolute difference between the results was greater than the 0.1 mg/L reporting limit for fluoride. The original result was non-detect at 0.1 mg/L and the duplicate result was 0.3 mg/L.

The DVSR First Quarter 2007 (Appendix D) discusses the QC split sample RPD results, the analytical results and RPD calculations (Table 4). Data was not qualified by DataVal due to RPD failure of QC split samples because the effect on the quality of the data is not known (DataVal, 2007b).

Second Quarter 2007

The overall correlation of analytical results between the two laboratories met project data quality objectives. All analytes in each duplicate pair met the RPD control limit requirements, except for the following:

- In QC split duplicates 1349MW100 and 1349MW100CL, the absolute difference between the reporting limit for heptachlor, acenaphthene, benzo(a)anthracene, and chrysene and the detected results were greater than the initial reporting limit.
- In QC split duplicates 1349MW100 and 1349MW100CL, the RPD between the reported results failed the 50% RPD acceptance criteria for TPHg (189%), TPHd (76%), anthracene (76%), dissolved arsenic (63%) and alkalinity (70%).

The DVSR Second Quarter 2007 (Appendix D) discusses the QC split sample RPD results, the analytical results and RPD calculations (Table 4). Data was not qualified by DataVal due to RPD failure of QC split samples because the effect on the quality of the data is not known (DataVal, 2007c)

6.2.2 Equipment Rinsate Blanks

Up to one equipment rinsate blank (ERB) was collected per non-dedicated sampling device per day. Per the FSP, the ERBs were collected by pouring clean laboratory-supplied deionized water over the decontaminated sampling device and directly into the sampling container. Table 8 summarizes the analytical results for the ERB samples.

First Quarter 2007

During this sampling event, six ERBs were collected and submitted for the same analyses as the sample that the equipment was used to collect. The following analytes were detected in the ERBs during the First Quarter 2007.

- Equipment blank 1065MW10ARB1065MW10B had a detected level of MTBE at 5.1 µg/L. The results for methyl tertiary-butyl ether in the associated samples were changed to non-detect (U) if those values were less than five times the blank amount.
- Equipment blank 1065PZ6BRB1065MW9A had a detected level of MTBE at 4.7 µg/L. The results for MTBE in the associated samples were changed to non-detect (U) if those values were less than five times the blank amount.
- Equipment blank BHWGW05RBBHWGW01 had a detected level of nitrogen as nitrate at 0.21 mg/L. The results for nitrogen as nitrate in the associated samples were changed to non-detect (U) if those values were less than five times the blank amount.
- Equipment blank 1065MW10ARB1065MW10B had a detected level of total dissolved solids at 16 mg/L. The associated samples had total dissolved solids values greater than five times the blank amount, and qualification was not required.
- Equipment blank 1065PZ6BRB1065MW9A had detected levels of chloride (0.4 mg/L) and total dissolved solids (100 mg/L). The associated samples had chloride values greater than five times the blank amount or non-detect, and qualification was not required. Qualification was not required for the physical property parameter total dissolved solids.

No other compounds were detected in any equipment blanks during the First Quarter 2007.

Additionally, a field blank was collected at the Nike Missile Facility during the First Quarter 2007 to determine if NDMA contamination was a result of field practices. The field blank, FB0302071A, was collected by filling a clean, disposable bailer with laboratory-supplied deionized water at the Site and decanting it into laboratory-supplied bottles. NDMA was not detected above the laboratory reporting limit (0.002 µg/L) in the field blank sample collected during the First Quarter 2007.

Second Quarter 2007

During this sampling event, one ERB was collected and submitted for the same analyses as the sample that the equipment was used to collect. The following analytes were detected in the ERB during the Second Quarter 2007.

- Equipment blank BHWGW04RBHWGW100 had a detected level of nitrogen as nitrate at 0.08 mg/L. Associated sample BHWGW04 had a nitrogen as nitrate level greater than five times the blank amount, and qualification was not required.
- Equipment blank BHWGW04RBHWGW100 had a dissolved metals value of 1,490 µg/L, which is a total based on a sodium value of 530 µg/L and a calcium value of 960 µg/L. The associated samples had sodium and calcium values greater than five times the blank amount and qualification was not required.

6.2.3 Trip Blanks

The laboratory supplied 40-milliliter trip blanks with each shipment of volatile organic compound (VOC) sampling containers sent from the laboratory. One trip blank was included with each cooler containing field samples planned for VOC analyses. Table 9 summarizes the analytical results for the trip blank samples.

First Quarter 2007

Eight trip blank samples were received by the analytical laboratories and analyzed for VOCs.

- Trip blank TB0228073A (193055-015) had a detected level of chloroform at 5.3 µg/L. The levels of chloroform in the associated project samples were non-detect, and qualification was not required.
- Trip blank TB0306072A (193217-013) had a detected level of chloroform at 0.5 µg/L. The levels of chloroform in the associated project samples were non-detect, and qualification was not required.

No other VOC compounds were detected during the First Quarter 2007 in any trip blanks.

Second Quarter 2007

Nine trip blank samples were received by the analytical laboratories and analyzed for VOCs. No VOCs were detected within any of the trip blank samples collected during this quarter.

6.2.4 Source Water Blanks

Blaine Tech Services, Inc., the contractor who performed groundwater monitoring tasks, provided deionized water for decontamination purposes from the water deionization system at its San Jose facility. Source water blanks were collected from the outflow of the water deionization system and from the water tanks mounted on one of the sampling vehicles. The source water blanks were submitted to the primary laboratory for all analyses in the Groundwater Monitoring Program. Table 10 summarizes the analytical results for the source water blanks.

First Quarter 2007

Source blank DW030807B was collected from the water tank on a sampling vehicle and source blank DW030807A was collected from Blaine Tech's water deionization system. A summary of detected results in these source blanks are listed below.

- Source blank DW030807B had a detected level of benzene at 0.07 µg/L. Benzene was reported in project samples at concentrations within historical ranges, except for 937GW106 which had a first time detection, therefore, the detected concentration in the source water blank does not appear to be significant. Detected concentrations of benzene in 937GW106 will be monitored to determine if this detection is repeated.
- Source blank DW030807B had a detected level of NDMA at 0.0021 µg/L. All groundwater samples collected for NDMA were collected using disposable bailers and therefore, the NDMA contamination in the source water did not affect any project samples.
- Source blank DW030807A had a detected level of NDMA at 0.0113 µg/L. All groundwater samples collected for NDMA were collected using disposable bailers and therefore, the NDMA contamination in the source water did not affect any project samples.
- Source blank DW030807A had detected levels of calcium (660 µg/L) and magnesium (2,600 µg/L). Project sample association with this blank could not be established, and qualification was not required.
- Source blank DW030807B had a detected level of TDS at 22 mg/L. Qualification was not required for the physical property parameter total dissolved solids.
- Source blank DW030807A had a detected level of TDS at 22 mg/L. Project sample association with this source blank could not be established, and qualification was not required.

No other analytes were detected above laboratory detection limits within this source water sample during this quarter.

Second Quarter 2007

Source blank DW052506A was collected from the water tank on a sampling vehicle and source blank DW053006B was collected from Blaine Tech's water deionization system. A summary of detected results in these source blanks are listed below.

- Source blank DW060707A had a detected level of calcium at 720 µg/L. Project sample association with this blank could not be established, and qualification was not required. TDS was reported in project samples at concentrations ranging from 410 mg/L to 2,940 mg/L. TDS concentrations in samples collected at the Presidio during the Second Quarter 2007 appear to be comparable to those collected in previous quarters, therefore, the detected concentration in the source water blank does not appear to be significant.

- Source blank DW060807B had a detected level of antimony at 15 µg/L. The associated project samples were non-detect for antimony, and qualification was not required. Antimony was reported in project samples at concentrations ranging from non-detect (less than 0.1 µg/L) to 3.2 µg/L. Antimony was only detected at monitoring locations BB1PZ100, BB1PZ101, and 231GW29. Piezometers BB1PZ100 and BB1PZ101 were sampled using a disposable bailer and 231GW29 was sampled using a pump. The concentration detected in 231GW29 was in the QC duplicate. Antimony was not detected in the primary or duplicate samples and therefore, the detected concentration does not appear to be significant.

- Source blank DW060707A had a detected level of TDS at 44 mg/L. Qualification was not required as TDS is a physical property parameter.

No other analytes were detected above laboratory detection limits within these source water samples during this quarter.

6.2.5 Temperature Blanks

Temperature blanks were included in coolers containing field samples sent to analytical laboratories, and the blank temperatures were recorded by the laboratory upon arrival. The QAPP specifies a temperature of 4.0 ^{O}C, plus or minus 2.0 ^{O}C.

First Quarter 2007

The temperature of all 24 temperature blanks sent to Curtis & Tompkins ranged from 1.2 to 4.2 ^{O}C, which are generally within QAPP requirements with the exception of slightly lower temperatures in select coolers. The slightly lower blank temperature is not considered to be significant.

Second Quarter 2007

The temperature range of all 10 temperature blanks sent to Curtis & Tompkins ranged from 2.3 to 5.3 ^{O}C, which is within QAPP requirements.

6.2.6 Matrix Spike and Matrix Spike Duplicate Samples

Three times the normal amount of sample volume was collected on every twentieth groundwater sample for matrix spike/matrix spike duplicate (MS/MSD) analysis. The MS/MSD results for the various analytical methods were evaluated by DataVal and discussed in the DVSRs, which are attached as Appendix D.

7.0 FIELD WORK DOCUMENTATION

This section describes the field documentation prepared for this sampling event, in conformance with the FSP. Field personnel are responsible for recording field activities on the appropriate field documentation form in sufficient detail to allow reconstruction of the sampling event without relying on memory. The location of completed field documentation forms and logs described in the FSP and used during this sampling event are described below.

- Field Instrument Calibration Logs (located in Appendix B and project files)
- Health & Safety Meeting Form (located in project files)
- Groundwater Level Measurements Logs (located in Appendix C and project files)
- Monitoring Well Sampling Logs (located at the end of each site-specific section in Appendix A and in project files)
- Chain-of-Custody Forms (located in Appendices E and F and project files)
- Field Investigation Daily Reports (located in project files)
- Bound Field Book (located in project files)
- Field Audit Forms (located in project files)

8.0 DISPOSAL OF PURGE AND DECONTAMINATION WATER

All water purged from wells and used for decontamination during the First and Second Quarters 2007 was collected and stored in two 2,800-gallon polyethylene above ground storage tanks located at the Central Magazine. On 8 March and 8 June 2007, water samples WT030807 and WT060807, respectively, were collected from the water tanks with laboratory-supplied containers and submitted to the primary laboratory for the analytes and criteria required by the City of San Francisco for batch discharge into the sanitary sewer system. Additionally, the hold time for the pH sample associated with WT060807 was missed so, an additional sample was collected for pH on 13 June 2007 (WT061307). Table 12 summarizes the analyses required by the City of San Francisco and the analytical results. The laboratory data reports are in Appendix E. All results were below discharge criteria. Trust personnel discharged the water to the sanitary sewer.

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TABLES

Table 1A
Proposed Sampling Schedule First Quarter 2007
Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

Site Name/ID	Well ID	Sampling Information				Analytical Requirements																											Notes/Comments
		Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases[4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals[5,6]	Total Metals[5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	ORP[8]	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHfo	TPHss	
						1625	various	EPA 9060	EPA 3810 / RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	(field probe)	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015	
Landfill 8	LF08GW01	Q1	Low Flow	Hand	1		Q1						Q1 (23)			Q1	Q1	Q1	Q1	Q1	Q1		Q1		Q1	Q1						A Focused Feasibility Study (FFS) for Landfills 8 and 10 has been prepared. The Trust is preparing a RAP for the two landfill sites, which is anticipated to be distributed to stakeholders in 2007. Monitoring will continue as shown until the RAP is implemented. ~~The frequency of water level / seep evaluation measurements was reduced to annual to match the sampling frequency at this site.~~
Landfill 8	LF08GW02B	Q1	Low Flow	Hand	1		Q1						Q1 (23)			Q1	Q1	Q1	Q1	Q1	Q1		Q1		Q1	Q1						
Landfill 8	LF08GW03	Q1	Low Flow	Hand	1		Q1						Q1 (23)			Q1	Q1	Q1	Q1	Q1	Q1		Q1		Q1	Q1						
Landfill 8	LF08GW04	Q1	Low Flow	Hand	1		Q1						Q1 (23)			Q1	Q1	Q1	Q1	Q1	Q1		Q1		Q1	Q1						
Landfill 8	LF08GW06	Q1	Low Flow	Hand	1		Q1						Q1 (23)			Q1	Q1	Q1	Q1	Q1	Q1		Q1		Q1	Q1						
Landfill 8	LF08PZ01	Q1	EM	Truck																													
Landfill 8	LF08PZ02	Q1	EM	Truck																													
Building 900s	937GW06	Q1	Modified	Truck	2												Q1				Q1							Q1	Q1	Q1			The Crissy Field RAP requires that monitoring continue until at least First Quarter 2007, at which time the monitoring program will be reviewed. A reduction to annual sampling for the Building 900s Area was approved by the stakeholders prior to the First Quarter 2004. ~~The frequency of water level / seep evaluation measurements was reduced to annual to match the sampling frequency at this site.~~
Building 900s	937GW07	Q1	Modified	Hand	1												Q1				Q1							Q1	Q1	Q1			
Building 900s	937GW12	Q1	Normal	Truck	2												Q1				Q1							Q1	Q1	Q1			
Building 900s	937GW15	Q1	Modified	Hand	2												Q1				Q1							Q1	Q1	Q1			
Building 900s	937GW32R	Q1	Normal	Truck	3												Q1				Q1							Q1	Q1	Q1			
Building 900s	937GW35	Q1	Normal	Hand	3												Q1				Q1							Q1	Q1	Q1			
Building 900s	937GW37	Q1	Normal	Truck	1												Q1				Q1							Q1	Q1	Q1			
Building 900s	937GW38	Q1	Modified	Truck	1												Q1				Q1							Q1	Q1	Q1			
Building 900s	937GW39	Q1	Modified	Truck	2												Q1				Q1							Q1	Q1	Q1			
Building 900s	937GW42	Q1	Normal	Truck	4												Q1				Q1							Q1	Q1	Q1			
Building 900s	937GW101	Q1	Normal	Truck	3												Q1				Q1							Q1	Q1	Q1			
Building 900s	937GW102	Q1	Normal	Truck	3												Q1				Q1							Q1	Q1	Q1			
Building 900s	937GW103	Q1	Normal	Truck	2												Q1				Q1							Q1	Q1	Q1			
Building 900s	937GW104	Q1	Normal	LIV	1												Q1				Q1							Q1	Q1	Q1			
Building 900s	937GW105	Q1	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1			
Building 900s	937GW106	Q1	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1			
Building 900s	937GW107	Q1	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1			
Building 900s	937GW108	Q1	Normal	Truck	1												Q1				Q1							Q1	Q1	Q1			
Building 900s	950GW108	Q1	Normal	LIV	4												Q1				Q1							Q1	Q1	Q1			
Building 900s	979GW109	Q1	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1			
Building 900s	979GW110	Q1	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1			
Building 900s	979GW111R	Q1	Normal	LIV	1												Q1				Q1							Q1	Q1	Q1			
Building 900s	979GW112	Q1	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1			
Building 900s	979GW113	Q1	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1			
Building 900s	979GW114	Q1	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1			
Building 900s	979GW115	Q1	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1			
Building 900s	979GW116	Q1	Normal	LIV	4												Q1				Q1							Q1	Q1	Q1			
Building 900s	979GW117	Q1	Modified	LIV	1												Q1				Q1							Q1	Q1	Q1			
Fill Site 1	LF01GW01	Q1	Modified	Truck	1		Q1						Q1 (22)			Q1	Q1									Q1							Due to the potential for human exposure, total dissolved solids, dissolved and total metals, general chemistry parameters and dissolved oxygen will continue to be monitored on an annual basis at El Polin Spring to ensure potential changes in water chemistry are identified. ~~The frequency of water level / seep evaluation measurements was reduced to annual to match the sampling frequency at this site.~~
Fill Site 1	LF01GW02	Q1	Modified	Truck	1		Q1						Q1 (22)			Q1	Q1									Q1						
Fill Site 1	LF01GW03	Q1	Modified	Truck	1		Q1						Q1 (22)			Q1	Q1									Q1						
Fill Site 1	LF01GW04	Q1	Modified	Truck	2		Q1						Q1 (22)			Q1	Q1									Q1						
Fill Site 1	LF01GW05	Q1	Modified	Truck	1		Q1						Q1 (22)			Q1	Q1									Q1						
Fill Site 1	LF01GW06	Q1	Modified	Truck	2		Q1						Q1 (22)			Q1	Q1									Q1						
Fill Site 1	LF01GW07	Q1	Modified	Truck	1		Q1						Q1 (22)			Q1	Q1									Q1						
El Polin Spring	EPSP01	Q1	Surface	Hand	3		Q1						Q1 (22)	Q1 (22)		Q1	Q1									Q1						
Landfill 2	LF02GW01	Q1	Modified	Truck	1		Q1						Q1 (22)			Q1	Q1									Q1						
Landfill 2	LF02GW02	Q1	Modified	Truck	1		Q1						Q1 (22)			Q1	Q1									Q1						
Landfill 2	LF02GW04	Q1	Modified	Truck	1		Q1						Q1 (22)			Q1	Q1									Q1						

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Site Name/ID	Well ID	Sampling Information				Analytical Requirements																											Notes/Comments
		Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases[4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals [5,6]	Total Metals [5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	ORP[8]	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHfo	TPHss	
						1625	various	EPA 9060	EPA 3810 / RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	(field probe)	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015	
Building 1349	1349MW01	Q	Modified	Truck	1		Q1						Q1 (23)			Q1	Q1	Q1	Q1		Q1		Q1					Q1	Q1	Q1		The sampling of wells 1349MW01, and 1349MW103 through 1349MW105, which are not serving as upgradient monitoring points for Fill Site 5 (per the Fill Site 5 RAP) has been reduced to annual, until the Building 1349 Area CAP has been implemented. ORP is measured for the evaluation of redox conditions, in accordance with recommendations from the Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites.
Building 1349	1349MW02	Q	Modified	Truck	1		Q1						Q1 (23)			Q1	Q1	Q1	Q1	Q1	Q1		Q1					Q1	Q1	Q1		
Building 1349/Fill Site 5	1349MW03R	Q	Modified	Hand	1												~~Q1, Q3~~		~~Q1, Q3~~														
Building 1349	1349MW100	Q	Modified	Truck	4		Q						Q (23)			Q	Q	Q	Q	Q1, Q3	Q		Q					Q	Q	Q		Monitoring well 1349MW100 will continue to be sampled quarterly due to continued detections in this well. Sampling at 1349MW02 has been reduced to annual until the Building 1349 Area CAP has been implemented. This change is in accordance with the Fill Site 5 RAP and is consistent with other ~~like~~ Building 1349 Area wells.
Building 1349/Fill Site 5	1349MW101	Q	Modified	Hand	1												~~Q1, Q3~~		~~Q1, Q3~~														
Building 1349/Fill Site 5	1349MW102	Q	Modified	Hand	3												~~Q1, Q3~~		~~Q1, Q3~~														~~TPH, PAHs, VOCs, PCBs, chlorinated herbicides, general chemistry parameters, TDS, and dissolved metals have met their p~~Post-remediation groundwater monitoring requirements and cleanup levels from the Fill Site 5 RAP have been met for the required frequency of monitoring within 1349MW03R, 1349MW101, and 1349MW102~~and were approved for removal prior to the Second Quarter 2006~~. OCPs have recently met cleanup levels in the Fill Site 5 wells and the Colma backfill sampling program has shown that OCPs are not present in backfill soil above cleanup levels at Fill Site 5. Thus, OCPs and dissolved oxygen are proposed for removal beginning in First Quarter 2007. It is noted that these three wells will be monitored per requirements of the Building 1349 Area CAP, once it is implemented.
Building 1349	1349MW103	Q	Modified	Hand	2		Q1						Q1 (23)			Q1	Q1	Q1	Q1		Q1		Q1					Q1	Q1	Q1		
Building 1349	1349MW104	Q	Modified	Hand	1		Q1						Q1 (23)			Q1	Q1	Q1	Q1		Q1		Q1					Q1	Q1	Q1		
Building 1349	1349MW105	Q	Modified	Hand	2		Q1						Q1 (23)			Q1	Q1	Q1	Q1		Q1		Q1					Q1	Q1	Q1		
Fill Site 5	LF5GW100	Q1~~, Q3~~	Low Flow	Hand	2												~~Q1, Q3~~		~~Q1, Q3~~														~~The following sampling locations are included in the Fill Site 5 groundwater monitoring plan: LF5GW100 through LF5GW104, LF5SP100, 1349MW02, 1349MW03R, 1349MW101, and 1349MW102. The frequency of water level / seep evaluation measurements was reduced to semi-annual to match the sampling frequency at this site.~~
Fill Site 5	LF5GW101	Q1~~, Q3~~	Low Flow	Hand	2												~~Q1, Q3~~		~~Q1, Q3~~														
Fill Site 5	LF5GW102	Q1~~, Q3~~	Modified	Hand	1												~~Q1, Q3~~		~~Q1, Q3~~														

Table 1A
Proposed Sampling Schedule First Quarter 2007
Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

Site Name/ID	Well ID	Sampling Information				Analytical Requirements																													Notes/Comments
		Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases[4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals[5,6]	Total Metals[5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	ORP[8]	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHo	TPHss	
						1625	various	EPA 9060	EPA 3810 / RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	(field probe)	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015		
Fill Site 5	LF5GW103	Q1~~, Q3~~	Modified	Hand	1												~~Q1, Q3~~		~~Q1, Q3~~																The post-remediation groundwater monitoring requirements and cleanup levels from the RAP have been met for the required frequency of monitoring for TPH, PAHs, VOCs, PCBs, chlorinated herbicides, general chemistry parameters, TDS, and dissolved metals parameters. ~~Monitoring of pesticides will continue until the Colma backfill soil sampling has been evaluated at Fill Site 5.~~The post-remediation groundwater monitoring requirements and cleanup levels from the RAP for OCPs were achieved in the Third Quarter 2006. Additionally, the Colma backfill soil sampling showed that OCPs are not present above cleanup levels in Fill Site 5 backfill soil. Thus, OCPs and dissolved oxygen are proposed for removal beginning with the First Quarter 2007. Water level measurements will continue to be collected on an annual basis at Fill Site 5 for the characterization of Building 1349 conditions. The Fill Site 5 wells will remain in-place until the Building 1349 CAP has been implemented.
Fill Site 5	LF5GW104	Q1~~, Q3~~	Modified	Hand	1												~~Q1, Q3~~		~~Q1, Q3~~																
Fill Site 5	LF5SP100	Q1~~, Q3~~	Surface	Hand	2												~~Q1, Q3~~		~~Q1, Q3~~																
Landfill 4	LF04GW03	Q	Low Flow	Truck	3												~~Q1, Q3~~		~~Q1, Q3~~																Post-remediation groundwater monitoring requirements from the RAP have been met for TPH, PAHs, VOCs, OCPs, and chlorinated herbicides for the required frequency of monitoring and therefore, these analytical compounds are no longer included in the Groundwater Monitoring Program at Landfill 4. Due to recent cleanup level exceedances of dissolved nickel and Aroclor 1260 and fluctuating concentrations of general chemistry parameters in wells LF4GW103 and/or LF4GW104, the Trust will continue to monitor for dissolved metals, PCBs, general chemistry parameters, and TDS as indicated within wells LF4GW103 and LF4GW104.
Landfill 4	LF4GW100	Q	Low Flow	Truck	1																													
Landfill 4	LF4GW101	Q	Low Flow	Truck	1																													
Landfill 4	LF4GW102	Q	Modified	Hand	2																													
Landfill 4	LF4GW103	Q	Modified	Hand	1		Q						Q (14)			Q	Q			Q1, Q3														
Landfill 4	LF4GW104	Q	Modified	Hand	1		Q						Q (14)			Q	Q			Q1, Q3														
Landfill 4	LF4GW105	Q	Modified	Hand	1																													
Landfill 4	LF4GW106	Q	Modified	Truck	1																													

Table 1A
Proposed Sampling Schedule First Quarter 2007
Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

Site Name/ID	Well ID	Sampling Information				Analytical Requirements																											Notes/Comments
		Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases[4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals[5,6]	Total Metals[5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	ORP[8]	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHfo	TPHss	
						1625	various	EPA 9060	EPA 3810 / RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	(field probe)	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015	
Comm / PX	600GW101																																~~PAH and VOC analyses within 600GW108 will be conducted annually in the First Quarter, along with other site wells, because PAHs have never been detected and no significant detections have been reported in the last four sampling events within 600GW108.~~
Comm / PX	600GW102																																
Comm / PX	600GW103																																
Comm / PX	600GW104																																
Comm / PX	600GW105																																
Comm / PX	600GW106																																
Comm / PX	600GW107																																The Final CAP for the Comm/PX Area is currently being implemented. ~~Sampling will not be conducted while the CAP is implemented.~~ Sampling will resume, in accordance with the CAP, once the implementation is complete (sampling is expected to resume Second Quarter 2007). ~~ORP is measured for the evaluation of redox conditions, in accordance with recommendations from the Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites.~~
Comm / PX	600GW108																																
Comm / PX	600GW109																																
Comm / PX	610GW101																																
Comm / PX	610GW102																																
Comm / PX	610GW103																																
Comm / PX	610SP01																																
Comm / PX	610SP02																																
Landfill E	DAEGW03	Q1	Normal	Hand	1		Q1						Q1 (22)			Q1	Q1		Q1	Q1	Q1		Q1					Q1	Q1	Q1			
Landfill E	DAEGW04	Q1	Normal	Hand	2		Q1						Q1 (22)			Q1	Q1				Q1		Q1						Q1	Q1			
Landfill E	DAEGW05	Q1	Normal	Hand	1		Q1						Q1 (22)			Q1	Q1		Q1	Q1	Q1		Q1					Q1	Q1	Q1			A focused feasibility study has been prepared for Landfill E. The reduction to annual sampling at Landfill E monitoring wells (DAEGW101 through DAEGW104) until the Landfill E RAP has been implemented has been approved. The proposed sampling frequency at Landfill E seep (DAESP03) has been increased to quarterly beginning with the First Quarter 2006 to assess seasonal and variable conditions. ~~The frequency of water level evaluation measurements was reduced to annual to match the sampling frequency for groundwater wells at this site.~~
Landfill E	DAEGW06	Q1	Modified	Hand	1		Q1						Q1 (22)			Q1	Q1				Q1		Q1						Q1	Q1			
Landfill E	DAEGW07	Q1	Low Flow	Hand	3		Q1						Q1 (22)			Q1	Q1		Q1	Q1	Q1		Q1	Q1				Q1	Q1	Q1			
Landfill E	DAEGW08	Q1	Normal	Hand	1		Q1						Q1 (22)			Q1	Q1		Q1	Q1	Q1		Q1					Q1	Q1	Q1			
Landfill E	DAESP03	Q	Surface	Hand	1		Q			Q	Q	Q	Q (23)	Q (23)		Q	Q		Q	Q	Q		Q			Q		Q	Q	Q			
Landfill E	DAEGW101	Q1	Modified	Hand	1		Q1			Q1	Q1	Q1	Q1 (23)			Q1	Q1		Q1	Q1	Q1		Q1					Q1	Q1	Q1			
Landfill E	DAEGW102	Q1	Modified	Hand	2		Q1			Q1	Q1	Q1	Q1 (23)			Q1	Q1		Q1	Q1	Q1		Q1					Q1	Q1	Q1			
Landfill E	DAEGW103	Q1	Normal	Truck	2		Q1			Q1	Q1	Q1	Q1 (23)			Q1	Q1		Q1	Q1	Q1		Q1					Q1	Q1	Q1			
Landfill E	DAEGW104	Q1	Modified	Hand	1		Q1			Q1	Q1	Q1	Q1 (23)			Q1	Q1		Q1	Q1	Q1		Q1					Q1	Q1	Q1			
Landfill E	DAEPZ101	Q1	EM	Hand	--																												
Landfill E	DAEPZ102	Q1	EM	Hand	--																												
Nike Facility	NKGW01	Q1~~, Q3~~	Modified	Truck	2	Q1~~, Q3~~							Q1 (23)			Q1	Q1~~, Q3~~				Q1					Q1		Q1	Q1	Q1			~~The frequency of water level / seep evaluation measurements was reduced to match the sampling frequency at this site.~~ Monitoring of NDMA and dissolved oxygen is proposed to be reduced to an annual basis to be consistent with other Nike Facility analyses until the remedial action at the site is implemented. The Revised Draft RAP for Nike Facility is currently in preparation.
Nike Facility	NKGW02	Q1~~, Q3~~	Modified	Truck	1	Q1~~, Q3~~							Q1 (23)			Q1	Q1~~, Q3~~				Q1					Q1		Q1	Q1	Q1			
Nike Facility	NKGW03	Q1~~, Q3~~	Low Flow	Truck	1	Q1~~, Q3~~							Q1 (23)			Q1	Q1~~, Q3~~				Q1					Q1		Q1	Q1	Q1			
Nike Facility	NKGW04	Q1~~, Q3~~	Modified	Truck	3	Q1~~, Q3~~							Q1 (23)			Q1	Q1~~, Q3~~				Q1					Q1		Q1	Q1	Q1			
Nike Facility	NKGW05	Q1~~, Q3~~	Modified	Truck	2	Q1~~, Q3~~							Q1 (23)			Q1	Q1~~, Q3~~				Q1					Q1		Q1	Q1	Q1			
Baker Beach Disturbed Areas 1 and 2A	BB1PZ100	Q	Modified	Hand	2		Q						Q (23)	Q (23)			Q		Q				Q							Q	Q			Monitoring will be completed within these piezometers and seep to establish baseline conditions in order to evaluate how construction operations will affect groundwater quality.
Baker Beach Disturbed Areas 1 and 2A	BB1PZ101	Q	Modified	Hand	1		Q						Q (23)	Q (23)			Q		Q				Q							Q	Q			
Baker Beach Disturbed Areas 1 and 2A	BB2ASW100	Q	Modified	Hand	1		Q						Q (23)	Q (23)			Q		Q				Q							Q	Q			

Table 1A
Proposed Sampling Schedule First Quarter 2007
Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

Site Name/ID	Well ID	Sampling Information				Analytical Requirements																											Notes/Comments
		Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases[4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals[5,6]	Total Metals[5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	ORP[8]	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHfo	TPHss	
						1625	various	EPA 9060	EPA 3810 / RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	(field probe)	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015	
Baker Beach Disturbed Area 3	BB3GW100	Q	Modified	Hand	1		Q						Q (22)			Q	Q											Q1, Q3	Q1, Q3	Q1, Q3		Groundwater analyses are conducted in general accordance with the Baker Beach Disturbed Area 3 RAP. Fixed monitoring points BB3SW100 through BB3SW102 are sampled using a disposable bailer and are purged prior to sampling, in accordance with the modified method of purging.
Baker Beach Disturbed Area 3	BB3GW101	Q	Modified	Hand	1		Q						Q (22)			Q	Q											Q	Q	Q		
Baker Beach Disturbed Area 3	BB3PZ101	Q	Modified	Hand	1		Q						Q (22)			Q	Q											Q	Q	Q		In accordance with the RAP, TPH analyses were reduced to semi-annual sampling at BB3GW100, BB3SW101 and BB3SW102, as no TPH detections have occurred for four quarterly events. For metals, chromium exceeded the cleanup level during the ~~Fourth~~ ~~Second~~ Quarter 200~~6~~5 at BB3SW102; thus, all seeps will continue to be analyzed on a quarterly basis for metals and general chemistry parameters. At BB3GW101, BB3PZ101, and BB3SW100, no detections have occurred above cleanup levels over one or two events; sampling of these wells will continue on a quarterly basis until sufficient data have been collected. At BB3GW100, no TPH detections have occurred and metals have not been detected above cleanup levels. Per the RAP, monitoring at BB3GW100 could be reduced to a semi-annual basis, however, quarterly sampling of this well will continue for evaluation of upgradient conditions.
Baker Beach Disturbed Area 3	BB3PZ102	Q	Modified	Hand	1		Q						Q (22)	Q (22)		Q	Q											Q	Q	Q		
Baker Beach Disturbed Area 3	BB3SW100	Q	Modified	Hand	1		Q						Q (22)	Q (22)		Q	Q											Q	Q	Q		
Baker Beach Disturbed Area 3	BB3SW101	Q	Modified	Hand	1		Q						Q (22)	Q (22)		Q	Q											Q1, Q3	Q1, Q3	Q1, Q3		
Baker Beach Disturbed Area 3	BB3SW102	Q	Modified	Hand	1		Q						Q (22)	Q (22)		Q	Q											Q1, Q3	Q1, Q3	Q1, Q3		At the request of the DTSC, piezometer BB3PZ102 and surface water location BB3SW104 were added to the groundwater monitoring program prior to the First Quarter 2006 to evaluate downgradient and surface water dissolved and total metal concentrations.
Baker Beach Disturbed Area 3	BB3SW104	Q	Surface	Hand	1		Q						Q (22)	Q (22)		Q	Q											Q	Q	Q		
Battery Howe/Wagner	BHWGW01	Q	Low Flow	Truck	3		Q						Q (22)				Q	Q1			Q1												Dissolved metals and general chemistry parameters are sampled quarterly within all Battery Howe/Wagner wells for comparison with data from the new upgradient wells (Mini-CAP Area wells 1213GW101 and 1221GW104).
Battery Howe/Wagner	BHWGW04	Q	Low Flow	Truck	1		Q						Q (22)				Q	Q1			Q1											
Battery Howe/Wagner	BHWGW05	Q	Low Flow	Truck	2		Q						Q (22)				Q	Q1			Q1											
Battery Howe/Wagner	HWGW100	Q	Low Flow	Truck	1		Q						Q (22)				Q	Q1			Q1											
Battery Howe/Wagner	HWGW101	Q	Low Flow	Truck	1		Q						Q (22)				Q	Q1			Q1											
Battery Howe/Wagner	HWGW102	Q	Low Flow	Truck	1		Q						Q (22)				Q	Q1			Q1											

Table 1A
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Site Name/ID	Well ID	Sampling Information				Analytical Requirements																										Notes/Comments
		Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases[4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals[5,6]	Total Metals[5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	ORP[8]	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHfo	TPHss	
						1625	various	EPA 9060	EPA 3810 / RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	(field probe)	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015	
Fill Site 6B	LF6GW100	Q1, Q3	Modified	Truck	2		Q1						Q1 (23)			Q1	Q1	Q1	Q1	Q1			Q1		Q1			Q1	Q1			A decision document for Fill Site 6B is currently being prepared. The reduction in sampling frequency for Fill Site 6B wells to annual was approved by the stakeholders prior to First Quarter 2004. Fill Site 6A monitoring well LF6GW103 will continue to be sampled in order to provide upgradient groundwater data for the Building 1065 Area and data for Fill Site 6B. Fill Site 6A wells are sampled in accordance with the RAP. The post-remediation groundwater monitoring requirements from the Fill Site 6A RAP have been met for one year (5 quarters of data). Analyses are proposed to be reduced to a semi-annual basis, in accordance with the Fill Site 6A RAP.
Fill Site 6B	LF6GW101	Q1, Q3	Modified	Truck	2		Q1						Q1 (23)			Q1	Q1	Q1	Q1	Q1			Q1		Q1			Q1	Q1			
Fill Site 6A/Fill Site 6B/Building 1065	LF6GW103	Q1, Q3	Modified	Truck	2		Q1, Q3						Q1,Q3 (~~23~~,22)			Q1, Q3	Q1, Q3	Q1, Q3	Q1	Q1			Q1, Q3		Q1			Q1	Q1, Q3			
Fill Site 6A	LF6GW104	Q1, Q3	Modified	Hand	1		Q1, Q3						Q1,Q3 (~~23~~,22)			Q1, Q3	Q1, Q3	Q1, Q3					Q1, Q3		Q1				Q1, Q3	Q1, Q3		
Fill Site 6A	LF6GW105	Q1, Q3	Modified	Hand	1		Q1, Q3						Q1,Q3 (~~23~~,22)			Q1, Q3	Q1, Q3	Q1, Q3							Q1							
Fill Site 6A	LF6GW106	Q1, Q3	Modified	Hand	1		Q1, Q3						Q1,Q3 (~~23~~,22)			Q1, Q3	Q1, Q3	Q1, Q3					Q1, Q3		Q1				Q1, Q3	Q1, Q3			TPHd, TPHfo and PAHs are sampled at monitoring wells LF6GW104 and LF6GW106 to assess impacts from the nearby FDS lines.
Fill Site 6A	LF6PZ101	Q1, Q3	EM	Hand																												
Fill Site 6A	LF6PZ102	Q1, Q3	EM	Hand																												
Fill Site 6A	LF6PZ103	Q1, Q3	EM	Hand																												
Fill Site 6A	LF6PZ104	Q1, Q3	EM	Hand																												ORP is measured for the evaluation of redox conditions, in accordance with recommendations from the Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites.
Fill Site 6A	LF6PZ105	Q1, Q3	EM	Hand																												
Fill Site 6A	LF6PZ106	Q1, Q3	EM	Hand																												
Bldg 1065	1065PZ1A	Q1	Low Flow	Truck	4		Q1						Q1 (15)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ1B	Q1	Normal	Truck	1		Q1						Q1 (15)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ2A	Q1	Low Flow	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		The recommended Final CAP for the Building 1065 Area has been submitted to the regulatory agencies for review. All wells and piezometers at Building 1065 ~~monitoring wells and piezometers will continue~~ are proposed to be sampled on an annual basis as shown until implementation of the Building 1065 CAP, after which sampling will be in accordance with CAP requirements.
Bldg 1065	1065PZ2B	Q1	Normal	Truck	1		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ3A	Q1	Low Flow	Truck	2		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ3B	Q1	Normal	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ4A	Q1	Low Flow	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ4B	Q1	Modified	Truck	1		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ5AR	Q1	Normal	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ5B	Q1	Modified	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ6A	Q1	Modified	Truck	4		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ6B	Q1	Normal	Truck	1		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ7A	Q1	Modified	Truck	1		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ7B	Q1	Modified	Truck	1		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065MW9A	Q1	Normal	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065MW9B	Q1	Normal	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		ORP is measured for the evaluation of redox conditions, in accordance with recommendations from the Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites.
Bldg 1065	1065MW10A	Q1	Normal	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065MW10B	Q1	Normal	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065MW11A	Q1	Normal	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065MW11B	Q1	Normal	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065MW101	Q1	Low Flow	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 1065	1065MW102	Q1	Low Flow	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 1065	1047MW101	Q1	Normal	Truck	1		Q1						Q1 (15)			Q1	Q1	Q1			Q1				Q1			Q1			Q1[10]	
Bldg 1027/1065	1027MW01	Q1	EM	Truck																												
Bldg 1027/1065	1027MW03	Q1	EM	Truck																												

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						1625	various	EPA 9060	EPA 3810 / RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	(field probe)	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015	
Bldg 207/231	207GW03	Q	Normal	Truck	2		~~Q1~~ Q2						~~Q1~~ Q2 (14)			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2			~~Q1~~ Q2				~~Q1~~ Q2			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2		The Recommended Final CAP for the Building 207/231 Area has been submitted to the stakeholders. The reduction in sampling frequency to annual (during First Quarter, except monitoring well 231GW09) for all wells until the CAP is implemented has been approved. Monitoring of 207/231 wells ~~231GW09, 231GW10, 231GW13, 231GW20, 231GW21, 231GW22, 231GW26, 231PZ01, and 231PZ04 will be sampled~~ is required at least two months prior to the Building 231/207 Area remedial action in order to establish a baseline of pre-construction TPH and arsenic data (currently anticipated to be during the Second Quarter 2007), ~~which is scheduled to begin in August 2007,~~ in accordance with the Building 207/231 CAP. Thus, the annual sampling for the Building 207/231 wells in 2007 will be postponed until the Second Quarter 2007.
Bldg 207/231	231GW06	Q	Normal	Truck	1		~~Q1~~ Q2						~~Q1~~ Q2 (14)			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2			~~Q1~~ Q2				~~Q1~~ Q2			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2		
Bldg 207/231 (Fill Sites 6A and 6B)	231GW09	Q	Modified	Truck	1		Q1,Q2,Q3						Q1,Q3 (~~23~~ 22)			Q1,Q2,Q3	Q1,Q2,Q3	Q1,Q2,Q3			~~Q1~~ Q2				Q1,Q2,Q3			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2		Well 231GW09 includes monitoring requirements for Fill Site 6A and 6B. Sampling will be performed per the CAP following the remedial action.
Bldg 207/231	231GW10	Q	Low Flow	Truck	2		~~Q1~~ Q2						~~Q1~~ Q2 (14)			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2			~~Q1~~ Q2				~~Q1~~ Q2			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2		
Bldg 207/231	231GW11	Q	Modified	Truck	1		~~Q1~~ Q2						~~Q1~~ Q2 (14)			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2			~~Q1~~ Q2				~~Q1~~ Q2			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2		
Bldg 207/231	231GW13	Q	Normal	Truck	1		~~Q1~~ Q2						~~Q1~~ Q2 (14)			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2			~~Q1~~ Q2				~~Q1~~ Q2			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2		
Bldg 207/231	231GW15	Q	Normal	Truck	1		~~Q1~~ Q2						~~Q1~~ Q2 (14)			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2			~~Q1~~ Q2				~~Q1~~ Q2			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2		
Bldg 207/231	231GW16	Q	Low Flow	Truck	3		~~Q1~~ Q2						~~Q1~~ Q2 (14)			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2			~~Q1~~ Q2				~~Q1~~ Q2			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2		
Bldg 207/231	231GW17	Q	Normal	Truck	2		~~Q1~~ Q2						~~Q1~~ Q2 (14)			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2			~~Q1~~ Q2				~~Q1~~ Q2			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2		
Bldg 207/231	231GW18	Q	Normal	Truck	2		~~Q1~~ Q2						~~Q1~~ Q2 (14)			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2			~~Q1~~ Q2				~~Q1~~ Q2			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2		
Bldg 207/231	231GW19	Q	Normal	Truck	1		~~Q1~~ Q2						~~Q1~~ Q2 (14)			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2			~~Q1~~ Q2				~~Q1~~ Q2			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2		
Bldg 207/231	231GW20	Q	Normal	Truck	2		~~Q1~~ Q2						~~Q1~~ Q2 (14)			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2			~~Q1~~ Q2				~~Q1~~ Q2			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2		
Bldg 207/231	231GW21	Q	Low Flow	Truck	4		~~Q1~~ Q2						~~Q1~~ Q2 (14)			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2			~~Q1~~ Q2				~~Q1~~ Q2			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2		
Bldg 207/231	231GW22	Q	Low Flow	Truck	4		~~Q1~~ Q2						~~Q1~~ Q2 (14)			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2			~~Q1~~ Q2				~~Q1~~ Q2			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2		
Bldg 207/231	231GW23	Q	Modified	Truck	2		~~Q1~~ Q2						~~Q1~~ Q2 (14)			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2			~~Q1~~ Q2				~~Q1~~ Q2			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2		
Bldg 207/231	231GW24	Q	Normal	Truck	1		~~Q1~~ Q2						~~Q1~~ Q2 (14)			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2			~~Q1~~ Q2				~~Q1~~ Q2			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2		
Bldg 207/231	231GW25	Q	Modified	Truck	2		~~Q1~~ Q2						~~Q1~~ Q2 (14)			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2			~~Q1~~ Q2				~~Q1~~ Q2			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2		
Bldg 207/231	231GW26	Q	Normal	Truck	2		~~Q1~~ Q2						~~Q1~~ Q2 (14)			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2			~~Q1~~ Q2				~~Q1~~ Q2			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2		
Bldg 207/231	231GW27	Q	Normal	Truck	2		~~Q1~~ Q2						~~Q1~~ Q2 (14)			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2			~~Q1~~ Q2				~~Q1~~ Q2			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2		
Bldg 207/231	231GW28	Q	Modified	Truck	2		~~Q1~~ Q2						~~Q1~~ Q2 (14)			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2			~~Q1~~ Q2				~~Q1~~ Q2			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2		
Bldg 207/231	231GW29	Q	Normal	Truck	2		~~Q1~~ Q2						~~Q1~~ Q2 (14)			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2			~~Q1~~ Q2				~~Q1~~ Q2			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2		
Bldg 207/231	231GW30	Q	Low Flow	Truck	3		~~Q1~~ Q2						~~Q1~~ Q2 (14)			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2			~~Q1~~ Q2				~~Q1~~ Q2			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2		
Bldg 207/231	231PZ01	Q	Low Flow	Truck	4		~~Q1~~ Q2						~~Q1~~ Q2 (14)			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2			~~Q1~~ Q2				~~Q1~~ Q2			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2		ORP is measured for the evaluation of redox conditions, in accordance with recommendations from the Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites.
Bldg 207/231	231PZ02	Q	Low Flow	Truck	4		~~Q1~~ Q2						~~Q1~~ Q2 (14)			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2			~~Q1~~ Q2				~~Q1~~ Q2			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2		
Bldg 207/231	231PZ03	Q	Low Flow	Truck	4		~~Q1~~ Q2						~~Q1~~ Q2 (14)			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2			~~Q1~~ Q2				~~Q1~~ Q2			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2		
Bldg 207/231	231PZ04	Q	Low Flow	Truck	4		~~Q1~~ Q2						~~Q1~~ Q2 (14)			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2			~~Q1~~ Q2				~~Q1~~ Q2			~~Q1~~ Q2	~~Q1~~ Q2	~~Q1~~ Q2		
Bldg 207/231	OW-1	Q	EM	Truck																													
Mini-CAP Areas	FM14EX07GW102	Q	Normal	Truck	1												Q					Q	Q					Q	Q	Q		VOCs were detected within 1213GW101 during the ~~First~~ Third Quarter 2006, therefore, VOC analyses will continue on a quarterly basis within this well. The PAH, fluoranthene, was detected within FM14EX07GW102 and 514AGW101 during the First and/or Third Quarters 2006 and therefore, PAH analyses are scheduled to be conducted quarterly within wells with detections (FM14EX07GW101, FM14EX07GW102, 1213GW101, and 514AGW101). TPH compounds will continue to be analyzed within wells with detections (FM14EX07GW101, FM14EX07GW102, 1213GW101, and 514AGW101) to establish a baseline of data.
Mini-CAP Areas	FM14EX07GW101	Q	Normal	Truck	1												Q					Q	Q					Q	Q	Q		
Mini-CAP Areas	1260GW102	Q	Normal	Truck	1																												
Mini-CAP Areas	1260GW103	Q	Normal	Truck	1																												
Mini-CAP Areas	1260GW101	Q	Normal	Truck	1																												
Mini-CAP Areas	1213GW101	Q	Normal	Truck	3		Q						Q (22)				Q				Q		Q					Q	Q	Q		
Mini-CAP Areas	1221GW103	Q	Normal	Truck	1																												
Mini-CAP Areas	1221GW102	Q	Normal	Truck	2																												
Mini-CAP Areas	1221GW104	Q	Normal	Truck	1		Q						Q (22)				Q																Quarterly analysis of dissolved metals and general chemistry parameters are proposed for wells 1213GW101 and 1221GW104 to evaluate conditions upgradient of Battery Howe/Wagner.
Mini-CAP Areas	1221GW101	Q	Normal	Truck	1																												
Mini-CAP Areas	514AGW101	Q	Normal	Truck	1												Q					Q	Q					Q	Q	Q		
Upgradient	UBR01GW01	~~Q1~~	EM	Truck																													
Upgradient	UBR02GW01	~~Q1~~	EM	Truck																													
Upgradient	UBR02GW02	~~Q1~~	EM	Truck																													
Upgradient	UBR03GW01	~~Q1~~	EM	Truck																													
Upgradient	UBR03GW02	~~Q1~~	EM	Truck																													Based on the large historical data set, ~~the frequency of~~ water level measurements ~~has been reduced to annual~~ will no longer be taken at these wells.
Tennessee Hollow	TH-1	~~Q1~~	EM	Hand																													
Tennessee Hollow	TH-2	~~Q1~~	EM	Truck																													
Tennessee Hollow	TH-3	~~Q1~~	EM	Truck																													
Tennessee Hollow	TH-4	~~Q1~~	EM	Hand																													
Tennessee Hollow	PGFGW100	~~Q1~~	EM	Truck																													
Tennessee Hollow	10GW100	~~Q1~~	EM	Truck																													

Table 1A
Proposed Sampling Schedule First Quarter 2007
Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

Site Name/ID	Well ID	Sampling Information				Analytical Requirements																										Notes/Comments
		Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases[4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals[5,6]	Total Metals[5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	ORP[8]	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHfo	TPHss	
						1625	various	EPA 9060	EPA 3810 / RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	(field probe)	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015	
Landfill 10	LF10GW01	Q	Modified	Hand	1		Q1						Q1 (23)			Q1	Q1					Q1						Q	Q	Q		A Focused Feasibility Study (FFS) for Landfills 8 and 10 has been prepared. The Trust is preparing a RAP for the two landfill sites, which is anticipated to be distributed to stakeholders in 2007. LF10GW02 and LF10SP01 could not be sampled during Q1, Q2, or Q3 2006 due to thick vegetation. The brush has been cleared and samples were ~~ill be~~ collected at these locations during Q4 2006. The sampling frequency at these two locations has returned to match the remainder of the site. TPH analyses have been increased from annual to quarterly in all Landfill 10 wells and seep due to recent detections in groundwater at Landfill 10. The TPH data will be evaluated in the RAP.
Landfill 10	LF10GW02	Q	Normal	Hand	1		Q1 ~~4~~						Q1 ~~4~~ (23)			Q1 ~~4~~	Q1 ~~4~~					Q1 ~~4~~						Q	Q	Q		
Landfill 10	LF10GW03	Q	Modified	Hand	2		Q1						Q1 (23)			Q1	Q1					Q1						Q	Q	Q		
Landfill 10	LF10GW100	Q	Normal	Truck	2		Q1						Q1 (23)			Q1	Q1					Q1						Q	Q	Q		
Landfill 10	LF10SP01	Q	Surface	Hand	2		Q1 ~~4~~						Q1 ~~4~~ (23)	Q1 ~~4~~ (23)		Q1 ~~4~~	Q1 ~~4~~					Q1 ~~4~~						Q	Q	Q		

Notes
1 - Normal, Low Flow, Modified, and Surface water sampling techniques. A description of sampling techniques can be found in the *Field Sampling Plan, Presidio Groundwater Monitoring Project* (Treadwell & Rollo, 2001a).
2 - Truck - Well accessible by truck
LIV - Low Impact Vehicle - Well accessible by LIV or hand truck only
Hand - Well accessible by hand truck only
3 - Sampling Order: At each site sample the wells with the lowest number first. For example, sample the number 1 wells first, the number 2 wells second etc. The following key explains the numbering system.
1 - Wells without significant detections of chemicals of concern
2 - Wells with occasional detections of low concentrations chemicals of concern
3 - Wells with consistent or recent detections of low concentrations chemicals of concern
4 - Wells with high concentrations of chemicals of concern
5 - Wells with very high concentrations of chemicals of concern. Potential for free phase product.
4 - Dissolved gases include methane, ethane, and ethene.
5 - Beginning with Second Quarter 2003, variance was granted from QAPP specified reporting limit requirements for seven metals.
6 - The table has been reformatted to one dissolved metals column. The number of dissolved metals proposed for analysis are denoted by parentheses. For example, Q (23) indicates the 23 metals list should be analyzed on a quarterly basis. The metals associated with each metals list are detailed below.
23 Metals List - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn.
22 Metals List - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn.
15 Metals List - Al, Sb, As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Pb, Ni and Zn.
14 Metals List - Al, As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Pb, Ni and Zn.
9 Metals List - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn.
8 Metals List - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn.
7 Metals List - As, Cr, Cd, Cu, Pb, Ni and Zn.
3 Metals List - Al, Fe, and Cr.
7 - Dissolved Oxygen (DO) concentration will be included in field sampling logs. DO values should be recorded immediately before sample collection.
8 - Oxidation-Reduction Potential (ORP) is measured within all wells proposed to be sampled using the low flow method using a flow through cell. For specified wells identified to be sampled by either the normal or modified methods and proposed for ORP measurements, ORP will be measured using a down-hole meter.
9 - Total sulfides are analyzed by the laboratory for all samples collected at the Presidio.
10 - Stoddard Solvent is a specialized formulation of gasoline. Laboratory quantification for Stoddard Solvent is achieved by comparing the shape of the analytical chromatogram within the same carbon range as TPHg for a diagnostic combination of spikes. Since TPHg is also proposed for analysis in this well, the comparison between this well and other sites which may be or have been evaluated for Stoddard Solvent will be maintained. Stoddard Solvent has been specified for this well per the Trust's request. The Trust will evaluate the Stoddard Solvent data as part of their Building 1047 investigation.

Bold red text indicates proposed changes for the First Quarter 2007.
All surface seeps where metals analysis is proposed will have two samples collected; one will be filtered and analyzed for dissolved metals and another one will not be filtered and analyzed for total metals.
EM - Elevation Monitoring only
Surface - Surface Water Sampling per Standard Operating Procedure
Trust - the Presidio Trust will evaluate seep BB3SP01 for flow on a quarterly basis and will inform the sampling crew if a sample can be collected.
Q1, Q3, etc. - Sample during specified quarters only
Q - Sample during all quarters unless otherwise directed
TPHg, TPHd, TPHfo, TPHss: Total Petroleum Hydrocarbons as gasoline, diesel, fuel oil, and stoddard solvent - EPA 3630A: Silica Gel Cleanup Step
General Chemistry Parameters; Alkalinity (total), bicarbonate, carbonate, chloride, fluoride, nitrate+nitrite (as N), sulfate
NDMA - N-nitrosodimethylamine
TBD - To Be Determined

Table 1B
Proposed Sampling Schedule Second Quarter 2007
Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

		Sampling Information				Analytical Requirements																											
Site Name/ID	Well ID	Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases[4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals[5,6]	Total Metals[5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	ORP[8]	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHfo	TPHss	Notes/Upcoming Milestones
						1625	various	EPA 9060	EPA 3810 / RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	(field probe)	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015	
Landfill 8	LF08GW01	Q1	Low Flow	Hand	1		Q1						Q1 (23)			Q1	Q1	Q1	Q1	Q1	Q1		Q1		Q1	Q1						
Landfill 8	LF08GW02B	Q1	Low Flow	Hand	1		Q1						Q1 (23)			Q1	Q1	Q1	Q1	Q1	Q1		Q1		Q1	Q1						**Upcoming Milestones:** ~~A Focused Feasibility Study (FFS) for Landfills 8 and 10 has been prepared. The Trust is preparing a RAP for the two landfill sites, which is anticipated to be distributed to stakeholders in 2007.~~ Landfill 8 will be addressed in RAP4. Sampling is expected to continue on an annual basis until RAP4 is prepared. ~~Monitoring will continue as shown until the RAP is implemented.~~
Landfill 8	LF08GW03	Q1	Low Flow	Hand	1		Q1						Q1 (23)			Q1	Q1	Q1	Q1	Q1	Q1		Q1		Q1	Q1						
Landfill 8	LF08GW04	Q1	Low Flow	Hand	1		Q1						Q1 (23)			Q1	Q1	Q1	Q1	Q1	Q1		Q1		Q1	Q1						
Landfill 8	LF08GW06	Q1	Low Flow	Hand	1		Q1						Q1 (23)			Q1	Q1	Q1	Q1	Q1	Q1		Q1		Q1	Q1						
Landfill 8	LF08PZ01	Q1	EM	Truck																												
Landfill 8	LF08PZ02	Q1	EM	Truck																												
Building 900s	937GW06	Q1	Modified	Truck	2												Q1				Q1							Q1	Q1	Q1		~~The Crissy Field RAP requires that monitoring continue until at least First Quarter 2007, at which time the monitoring program will be reviewed. A reduction to annual sampling for the Building 900s Area was approved by the stakeholders prior to the First Quarter 2004.~~ **Upcoming Milestones:** The Crissy Field RAP groundwater monitoring requirements have been met at the Building 900s Area. A five year review report will be completed for this area in 2007. Modifications to the groundwater sampling activities for the Building 900s Area will be made after the five year review has been completed.
Building 900s	937GW07	Q1	Modified	Hand	1												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW12	Q1	Normal	Truck	2												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW15	Q1	Modified	Hand	2												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW32R	Q1	Normal	Truck	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW35	Q1	Normal	Hand	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW37	Q1	Normal	Truck	1												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW38	Q1	Modified	Truck	1												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW39	Q1	Modified	Truck	2												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW42	Q1	Normal	Truck	4												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW101	Q1	Normal	Truck	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW102	Q1	Normal	Truck	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW103	Q1	Normal	Truck	2												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW104	Q1	Normal	LIV	1												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW105	Q1	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW106	Q1	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW107	Q1	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW108	Q1	Normal	Truck	1												Q1				Q1							Q1	Q1	Q1		
Building 900s	950GW108	Q1	Normal	LIV	4												Q1				Q1							Q1	Q1	Q1		
Building 900s	979GW109	Q1	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	979GW110	Q1	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	979GW111R	Q1	Normal	LIV	1												Q1				Q1							Q1	Q1	Q1		
Building 900s	979GW112	Q1	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	979GW113	Q1	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	979GW114	Q1	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	979GW115	Q1	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	979GW116	Q1	Normal	LIV	4												Q1				Q1							Q1	Q1	Q1		
Building 900s	979GW117	Q1	Modified	LIV	1												Q1				Q1							Q1	Q1	Q1		
Fill Site 1	LF01GW01	Q1	Modified	Truck	1		Q1						Q1 (22)			Q1	Q1									Q1						~~Due to the potential for human exposure, total dissolved solids, dissolved and total metals, general chemistry parameters and dissolved oxygen will continue to be monitored on an annual basis at El Polin Spring to ensure potential changes in water chemistry are identified.~~ **Upcoming Milestones:** Fill Site 1, Landfill 2 and El Polin Spring will be addressed in RAP5. Sampling is expected to continue on an annual basis until RAP5 is prepared.
Fill Site 1	LF01GW02	Q1	Modified	Truck	1		Q1						Q1 (22)			Q1	Q1									Q1						
Fill Site 1	LF01GW03	Q1	Modified	Truck	1		Q1						Q1 (22)			Q1	Q1									Q1						
Fill Site 1	LF01GW04	Q1	Modified	Truck	2		Q1						Q1 (22)			Q1	Q1									Q1						
Fill Site 1	LF01GW05	Q1	Modified	Truck	1		Q1						Q1 (22)			Q1	Q1									Q1						
Fill Site 1	LF01GW06	Q1	Modified	Truck	2		Q1						Q1 (22)			Q1	Q1									Q1						
Fill Site 1	LF01GW07	Q1	Modified	Truck	1		Q1						Q1 (22)			Q1	Q1									Q1						
El Polin Spring	EPSP01	Q1	Surface	Hand	3		Q1						Q1 (22)	Q1 (22)		Q1	Q1									Q1						
Landfill 2	LF02GW01	Q1	Modified	Truck	1		Q1						Q1 (22)			Q1	Q1									Q1						
Landfill 2	LF02GW02	Q1	Modified	Truck	1		Q1						Q1 (22)			Q1	Q1									Q1						
Landfill 2	LF02GW04	Q1	Modified	Truck	1		Q1						Q1 (22)			Q1	Q1									Q1						

Table 1B
Proposed Sampling Schedule Second Quarter 2007
Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

		Sampling Information				Analytical Requirements																													
Site Name/ID	Well ID	Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases[4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals[5,6]	Total Metals[5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	ORP[8]	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHfo	TPHss	Notes/Upcoming Milestones
						1625	various	EPA 9060	EPA 3810 / RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	(field probe)	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015	
Building 1349	1349MW01	Q	Modified	Truck	1		Q1						Q1 (23)			Q1	Q1	Q1	Q1		Q1		Q1					Q1	Q1	Q1		~~The sampling of wells 1349MW01, and 1349MW103 through 1349MW105, which are not serving as upgradient monitoring points for Fill Site 5 (per the Fill Site 5 RAP) has been reduced to annual, until the Building 1349 Area CAP has been implemented.~~ ~~ORP is measured for the evaluation of redox conditions, in accordance with recommendations from the Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites.~~ ~~Monitoring well 1349MW100 will continue to be sampled quarterly due to continued detections in this well. Sampling at 1349MW02 has been reduced to annual until the Building 1349 Area CAP has been implemented. This change is in accordance with the Fill Site 5 RAP and is consistent with sampling at other Building 1349 Area wells.~~
Building 1349	1349MW02	Q	Modified	Truck	1		Q1						Q1 (23)			Q1	Q1	Q1	Q1	Q1	Q1		Q1					Q1	Q1	Q1		
Building 1349/Fill Site 5	1349MW03R	Q	Modified	Hand	1																														
Building 1349	1349MW100	Q	Modified	Truck	4		Q						Q (23)			Q	Q	Q	Q	Q1, Q3	Q		Q					Q	Q	Q		~~Post-remediation groundwater monitoring requirements and cleanup levels from the Fill Site 5 RAP have been met for the required frequency of monitoring within 1349MW03R, 1349MW101, and 1349MW102. OCPs have recently met cleanup levels in the Fill Site 5 wells and the Colma backfill sampling program has shown that OCPs are not present in backfill soil above cleanup levels at Fill Site 5. Thus, OCPs and dissolved oxygen are proposed for removal beginning in First Quarter 2007. It is noted that these three wells will be monitored per requirements of the Building 1349 Area CAP, once it is implemented.~~
Building 1349/Fill Site 5	1349MW101	Q	Modified	Hand	1																														
Building 1349/Fill Site 5	1349MW102	Q	Modified	Hand	3																														
Building 1349	1349MW103	Q	Modified	Hand	2		Q1						Q1 (23)			Q1	Q1	Q1	Q1		Q1		Q1					Q1	Q1	Q1		
Building 1349	1349MW104	Q	Modified	Hand	1		Q1						Q1 (23)			Q1	Q1	Q1	Q1		Q1		Q1					Q1	Q1	Q1		**Upcoming Milestones:** The Final CAP for the Building 1349 Area was approved in February 2006. Sampling is expected to continue as shown until the CAP is implemented (expected to be Summer 2007).
Building 1349	1349MW105	Q	Modified	Hand	2		Q1						Q1 (23)			Q1	Q1	Q1	Q1		Q1		Q1					Q1	Q1	Q1		

Table 1B
Proposed Sampling Schedule Second Quarter 2007
Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

		Sampling Information				Analytical Requirements																												
Site Name/ID	Well ID	Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases[4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals[5,6]	Total Metals[5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	ORP[8]	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHfo	TPHss	Notes/Upcoming Milestones
						1625	various	EPA 9060	EPA 3810 / RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	(field probe)	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015	
Fill Site 5	LF5GW100	Q1	Low Flow	Hand	2																												The post-remediation groundwater monitoring requirements and cleanup levels from the RAP have been met for the required frequency of monitoring for TPH, PAHs, VOCs, PCBs, chlorinated herbicides, general chemistry parameters, TDS, and dissolved metals parameters. The post-remediation groundwater monitoring requirements and cleanup levels from the RAP for OCPs were achieved in the Third Quarter 2006. Additionally, the Colma backfill soil sampling showed that OCPs are not present above cleanup levels in Fill Site 5 backfill soil. Thus, OCPs and dissolved oxygen are proposed for removal beginning with the First Quarter 2007. Water level measurements will continue to be collected on an annual basis at Fill Site 5 for the characterization of Building 1349 conditions. **Upcoming Milestones:** The post-remediation groundwater monitoring requirements from the Fill Site 5 RAP have been met. The Fill Site 5 wells will remain in place until the Building 1349 correction action is completed.
Fill Site 5	LF5GW101	Q1	Low Flow	Hand	2																												
Fill Site 5	LF5GW102	Q1	Modified	Hand	1																												
Fill Site 5	LF5GW103	Q1	Modified	Hand	1																												
Fill Site 5	LF5GW104	Q1	Modified	Hand	1																												
Fill Site 5	LF5SP100	Q1	Surface	Hand	2																												
Landfill 4	LF04GW03	Q	Low Flow	Truck	3																												Post-remediation groundwater monitoring requirements from the RAP have been met for TPH, PAHs, VOCs, OCPs, and chlorinated herbicides for the required frequency of monitoring and therefore, these analytical compounds are no longer included in the Groundwater Monitoring Program at Landfill 4. **Notes:** Due to recent cleanup level exceedances of dissolved nickel and Aroclor 1260 and fluctuating concentrations of general chemistry parameters in wells LF4GW103 and/or LF4GW104, the Trust is continuing to monitor for dissolved metals, PCBs, general chemistry parameters, and TDS as indicated within wells LF4GW103 and LF4GW104. **Upcoming Milestones**: Post-remediation monitoring at Landfill 4 began in February 2003 in accordance with the Final RAP. Data will continue to be reviewed after each sampling event to determine if modifications to the sampling program should be made in accordance with the Final RAP.
Landfill 4	LF4GW100	Q	Low Flow	Truck	1																												
Landfill 4	LF4GW101	Q	Low Flow	Truck	1																												
Landfill 4	LF4GW102	Q	Modified	Hand	2																												
Landfill 4	LF4GW103	Q	Modified	Hand	1		Q						Q (14)			Q	Q			Q1, Q3												
Landfill 4	LF4GW104	Q	Modified	Hand	1		Q						Q (14)			Q	Q			Q1, Q3												
Landfill 4	LF4GW105	Q	Modified	Hand	1																												
Landfill 4	LF4GW106	Q	Modified	Truck	1																												

Table 1B
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		Sampling Information				Analytical Requirements																													
Site Name/ID	Well ID	Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases[4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals[5,6]	Total Metals[5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	ORP[8]	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHo	TPHss	Notes/Upcoming Milestones
						1625	various	EPA 9060	EPA 3810 / RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	(field probe)	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015		
~~Comm / PX~~	~~600GW101~~																																~~Sampling will not be conducted while the CAP is being implemented. Sampling will resume, in accordance with the CAP, once the implementation is complete (sampling is expected to resume Second Third Quarter 2007).~~ **Notes**: Phase I excavation remediation work at the Com/PX Area is substantially complete. The post-remediation groundwater monitoring program required by the Revised Final CAP will be initiated during 2nd Quarter 2007. Well 600GW101 has been decomissioned and has not been replaced.
Comm / PX	600GW102	Q	Normal	Truck	3																												
Comm / PX	600GW103	Q	Normal	Truck	3																												
Comm / PX	600GW104	Q	Normal	Truck	3																												
Comm / PX	600GW105	Q	Low Flow	Truck	3																												
Comm / PX	600GW106	Q	Low Flow	Truck	3		Q						Q (4)			Q	Q	Q				Q2, Q4						Q2, Q4	Q2, Q4	Q2, Q4		
Comm / PX	600GW107	Q	Modified	Truck	3																												
Comm / PX	600GW108	Q	Low Flow	Hand	3																												
Comm / PX	600GW109	Q	Normal	Hand	3																												
Comm / PX	610GW101	Q	Low Flow	Truck	1		Q						Q (4)			Q	Q	Q				Q2, Q4						Q2, Q4	Q2, Q4	Q2, Q4		**Upcoming Milestones:** The post-remediation groundwater monitoring program will continue to be conducted in accordance with the Revised Final CAP.
Comm / PX	610GW102	Q	Low Flow	Truck	2		Q						Q (4)			Q	Q	Q				Q2, Q4						Q2, Q4	Q2, Q4	Q2, Q4		
Comm / PX	610GW103	Q	Low Flow	Truck	3		Q						Q (4)			Q	Q	Q				Q2, Q4						Q2, Q4	Q2, Q4	Q2, Q4		
Comm / PX	610SP01	Q	Surface	Hand	3		Q						Q (4)	Q (4)		Q	Q	Q				Q2, Q4						Q2, Q4	Q2, Q4	Q2, Q4		
Comm / PX	610SP02	Q	Surface	Hand	3		Q						Q (4)	Q (4)		Q	Q	Q				Q2, Q4						Q2, Q4	Q2, Q4	Q2, Q4		
Landfill E	DAEGW03	Q1	Normal	Hand	1		Q1						Q1 (22)			Q1	Q1		Q1	Q1	Q1		Q1					Q1	Q1	Q1		
Landfill E	DAEGW04	Q1	Normal	Hand	2		Q1						Q1 (22)			Q1	Q1				Q1		Q1						Q1	Q1		~~A focused feasibility study has been prepared for Landfill E. The reduction to annual sampling at Landfill E monitoring wells (DAEGW101 through DAEGW104) until the Landfill E RAP has been implemented has been approved. The proposed sampling frequency at Landfill E seep (DAESP03) was increased to quarterly beginning with the First Quarter 2006 to assess seasonal and variable conditions.~~ **Upcoming Milestones:** Landfill E will be addressed in RAP5. Sampling is expected to continue as shown until RAP5 is prepared.
Landfill E	DAEGW05	Q1	Normal	Hand	1		Q1						Q1 (22)			Q1	Q1		Q1	Q1	Q1		Q1					Q1	Q1	Q1		
Landfill E	DAEGW06	Q1	Modified	Hand	1		Q1						Q1 (22)			Q1	Q1				Q1		Q1						Q1	Q1		
Landfill E	DAEGW07	Q1	Low Flow	Hand	3		Q1						Q1 (22)			Q1	Q1		Q1	Q1	Q1		Q1	Q1				Q1	Q1	Q1		
Landfill E	DAEGW08	Q1	Normal	Hand	1		Q1						Q1 (22)			Q1	Q1		Q1	Q1	Q1		Q1					Q1	Q1	Q1		
Landfill E	DAESP03	Q	Surface	Hand	1		Q			Q	Q	Q	Q (23)	Q (23)		Q	Q		Q	Q	Q		Q			Q		Q	Q	Q		
Landfill E	DAEGW101	Q1	Modified	Hand	1		Q1			Q1	Q1	Q1	Q1 (23)			Q1	Q1		Q1	Q1	Q1		Q1					Q1	Q1	Q1		
Landfill E	DAEGW102	Q1	Modified	Hand	2		Q1			Q1	Q1	Q1	Q1 (23)			Q1	Q1		Q1	Q1	Q1		Q1					Q1	Q1	Q1		
Landfill E	DAEGW103	Q1	Normal	Truck	2		Q1			Q1	Q1	Q1	Q1 (23)			Q1	Q1		Q1	Q1	Q1		Q1					Q1	Q1	Q1		
Landfill E	DAEGW104	Q1	Modified	Hand	1		Q1			Q1	Q1	Q1	Q1 (23)			Q1	Q1		Q1	Q1	Q1		Q1					Q1	Q1	Q1		
Landfill E	DAEPZ101	Q1	EM	Hand	--																												
Landfill E	DAEPZ102	Q1	EM	Hand	--																												
Nike Facility	NKGW01	Q1	Modified	Truck	2	Q1							Q1 (23)			Q1	Q1				Q1					Q1		Q1	Q1	Q1		
Nike Facility	NKGW02	Q1	Modified	Truck	1	Q1							Q1 (23)			Q1	Q1				Q1					Q1		Q1	Q1	Q1		~~The Revised Draft RAP for Nike Facility is currently in preparation.~~ **Upcoming Milestones:** Draft RAP3 was released for public comment in May 2007. ~~Monitoring of NDMA and dissolved oxygen is proposed to be reduced to an annual basis to be consistent with other Nike Facility analyses until the remedial action at the site is implemented.~~ Sampling is expected to continue as shown until the Final RAP3 is approved and implemented.
Nike Facility	NKGW03	Q1	Low Flow	Truck	1	Q1							Q1 (23)			Q1	Q1				Q1					Q1		Q1	Q1	Q1		
Nike Facility	NKGW04	Q1	Modified	Truck	3	Q1							Q1 (23)			Q1	Q1				Q1					Q1		Q1	Q1	Q1		
Nike Facility	NKGW05	Q1	Modified	Truck	2	Q1							Q1 (23)			Q1	Q1				Q1					Q1		Q1	Q1	Q1		

Table 1B
Proposed Sampling Schedule Second Quarter 2007
Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

		Sampling Information				Analytical Requirements																													
Site Name/ID	Well ID	Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases[4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals[5,6]	Total Metals[5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	ORP[8]	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHfo	TPHss	Notes/Upcoming Milestones
						1625	various	EPA 9060	EPA 3810 / RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	(field probe)	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015		
Baker Beach Disturbed Areas 1 and 2A	BB1PZ100	Q	Modified	Hand	2		Q						Q (23)	Q (23)			Q		Q				Q						Q	Q			
Baker Beach Disturbed Areas 1 and 2A	BB1PZ101	Q	Modified	Hand	1		Q						Q (23)	Q (23)			Q		Q				Q						Q	Q			~~Monitoring will be completed within these piezometers and seep to establish baseline conditions in order to evaluate how construction operations will affect groundwater quality.~~ **Upcoming Milestones:** Draft RAP3 was released for public comment in May 2007. Sampling is expected to continue as shown until the Final RAP3 is approved and implemented.
Baker Beach Disturbed Areas 1 and 2A	BB2ASW100	Q	Modified	Hand	1		Q						Q (23)	Q (23)			Q		Q				Q						Q	Q			
Baker Beach Disturbed Area 3	BB3GW100	Q	Modified	Hand	1		Q						Q (22)			Q	Q												Q1, Q3	Q1, Q3	Q1, Q3		~~Groundwater analyses are conducted in general accordance with the Baker Beach Disturbed Area 3 RAP. Fixed monitoring points BB3SW100 through BB3SW102 are sampled using a disposable bailer and are purged prior to sampling, in accordance with the modified method of purging. At the request of the DTSC, piezometer BB3PZ102 and surface water location BB3SW104 were added to the groundwater monitoring program prior to the First Quarter 2006 to evaluate downgradient and surface water dissolved and total metal concentrations.~~
Baker Beach Disturbed Area 3	BB3GW101	Q	Modified	Hand	1		Q						Q (22)			Q	Q												Q	Q	Q		
Baker Beach Disturbed Area 3	BB3PZ101	Q	Modified	Hand	1		Q						Q (22)			Q	Q												Q	Q	Q		
Baker Beach Disturbed Area 3	BB3PZ102	Q	Modified	Hand	1		Q						Q (22)	Q (22)		Q	Q												Q	Q	Q		**Notes:** ~~In accordance with the RAP,~~ TPH analyses were previously reduced to semi-annual sampling at BB3GW100, BB3SW101 and BB3SW102, as no TPH detections have occurred above cleanup levels. At other locations, sampling for TPH will continue until sufficient data have been collected. ~~for four quarterly events.~~ Metals will continue to be collected on a quarterly basis at all locations due to recent detections of chromium above the cleanup level at BB3SW102. ~~For metals, chromium exceeded the cleanup level during the Second Quarter 2006 at BB3SW102; thus, all seeps will continue to be analyzed on a quarterly basis for metals and general chemistry parameters. At BB3GW101, BB3PZ101, and BB3SW100, no detections have occurred above cleanup levels over one or two events; sampling of these wells will continue on a quarterly basis until sufficient data have been collected. At BB3GW100, no TPH detections have occurred and metals have not been detected above cleanup levels. Per the RAP, monitoring at BB3GW100 could be reduced to a semi-annual basis, however, quarterly sampling of this well will continue for~~
Baker Beach Disturbed Area 3	BB3SW100	Q	Modified	Hand	1		Q						Q (22)	Q (22)		Q	Q												Q	Q	Q		
Baker Beach Disturbed Area 3	BB3SW101	Q	Modified	Hand	1		Q						Q (22)	Q (22)		Q	Q												Q1, Q3	Q1, Q3	Q1, Q3		
Baker Beach Disturbed Area 3	BB3SW102	Q	Modified	Hand	1		Q						Q (22)	Q (22)		Q	Q												Q1, Q3	Q1, Q3	Q1, Q3		
Baker Beach Disturbed Area 3	BB3SW104	Q	Surface	Hand	1		Q						Q (22)	Q (22)		Q	Q												Q	Q	Q		**Upccoming Milestones:** Post-remediation monitoring at BBDA 3 began in December 2004 in accordance with the Final RAP. Data will continue to be reviewed on a quarterly basis to determine if modifications to the sampling program should be made in accordance with the Final RAP.

Table 1B
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Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

		Sampling Information				Analytical Requirements																												
Site Name/ID	Well ID	Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases[4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals[5,6]	Total Metals[5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	ORP[8]	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHfo	TPHss	Notes/Upcoming Milestones
						1625	various	EPA 9060	EPA 3810 / RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	(field probe)	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015	
Battery Howe/Wagner	BHWGW01	Q	Low Flow	Truck	3		Q						Q (22)				Q	Q1			Q1											
Battery Howe/Wagner	BHWGW04	Q	Low Flow	Truck	1		Q						Q (22)				Q	Q1			Q1											
Battery Howe/Wagner	BHWGW05	Q	Low Flow	Truck	2		Q						Q (22)				Q	Q1			Q1											~~Dissolved metals and general chemistry parameters are sampled quarterly within all Battery Howe/Wagner wells for comparison with data from the new upgradient wells (Mini-CAP Area wells 1213GW101 and 1221GW104).~~
Battery Howe/Wagner	HWGW100	Q	Low Flow	Truck	1		Q						Q (22)				Q	Q1			Q1											**Upcoming Milestones:** BHW will be addressed in RAP5. Sampling is expected to continue as shown until RAP5 is prepared.
Battery Howe/Wagner	HWGW101	Q	Low Flow	Truck	1		Q						Q (22)				Q	Q1			Q1											
Battery Howe/Wagner	HWGW102	Q	Low Flow	Truck	1		Q						Q (22)				Q	Q1			Q1											
Fill Site 6B	LF6GW100	Q1, Q3	Modified	Truck	2		Q1						Q1 (23)			Q1	Q1	Q1	Q1	Q1			Q1		Q1			Q1	Q1			
Fill Site 6B	LF6GW101	Q1, Q3	Modified	Truck	2		Q1						Q1 (23)			Q1	Q1	Q1	Q1	Q1			Q1		Q1			Q1	Q1			~~A decision document for Fill Site 6B is currently being prepared. The reduction in sampling frequency for Fill Site 6B wells to annual was approved by the stakeholders prior to First Quarter 2004. Fill Site 6A monitoring well LF6GW102 will continue to be sampled in order to provide upgradient groundwater data for the Building 1065 Area and data for Fill Site 6B.~~
Fill Site 6A/Fill Site 6B/Building 1065	LF6GW103	Q1, Q3	Modified	Truck	2		Q1, Q3						Q1, Q3 (22)			Q1, Q3	Q1, Q3	Q1, Q3	Q1	Q1			Q1, Q3		Q1			Q1	Q1, Q3			**Fill Site 6B Upcoming Milestones:** Fill Site 6B will be addressed in RAP5. Fill Site 6B wells are expected to be sampled on an annual basis until RAP5 is prepared.
Fill Site 6A	LF6GW104	Q1, Q3	Modified	Hand	1		Q1, Q3						Q1, Q3 (22)			Q1, Q3	Q1, Q3	Q1, Q3					Q1, Q3		Q1				Q1, Q3	Q1, Q3		
Fill Site 6A	LF6GW105	Q1, Q3	Modified	Hand	1		Q1, Q3						Q1, Q3 (22)			Q1, Q3	Q1, Q3	Q1, Q3							Q1							
Fill Site 6A	LF6GW106	Q1, Q3	Modified	Hand	1		Q1, Q3						Q1, Q3 (22)			Q1, Q3	Q1, Q3	Q1, Q3					Q1, Q3		Q1				Q1, Q3	Q1, Q3		~~TPHd, TPHfo and PAHs are sampled at monitoring wells LF6GW104 and LF6GW106 to assess impacts from the nearby FDS lines. ORP is measured for the evaluation of redox conditions, in accordance with recommendations from the Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites.~~
Fill Site 6A	LF6PZ101	Q1, Q3	EM	Hand																												
Fill Site 6A	LF6PZ102	Q1, Q3	EM	Hand																												
Fill Site 6A	LF6PZ103	Q1, Q3	EM	Hand																												**Fill Site 6A Upcoming Milestones:** Post-remediation groundwater monitoring at Fill Site 6A began during the Fourth Quarter 2005 in accordance with the RAP. ~~The post-remediation groundwater monitoring requirements from the Fill Site 6A RAP have been met for one year (5 quarters of data).~~ Analyses ~~are proposed to be~~were reduced to a semi-annual basis beginning in the First Quarter 2007~~, in accordance with the Fill Site 6A RAP~~. The wells are expected to be sampled on a semi-annual basis through the Third Quarter 2008, but are reviewed following each sampling event to determine if modifications to the sampling program should be made.
Fill Site 6A	LF6PZ104	Q1, Q3	EM	Hand																												
Fill Site 6A	LF6PZ105	Q1, Q3	EM	Hand																												
Fill Site 6A	LF6PZ106	Q1, Q3	EM	Hand																												

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		Sampling Information				Analytical Requirements																													
Site Name/ID	Well ID	Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases[4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals[5,6]	Total Metals[5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	ORP[8]	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHfo	TPHss	Notes/Upcoming Milestones
						1625	various	EPA 9060	EPA 3810 / RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	(field probe)	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015		
~~Bldg 1065~~	~~1065PZ1A~~	~~Q1~~	~~Low Flow~~	~~Truck~~	~~4~~		~~Q1~~						~~Q1 (15)~~			~~Q1~~	~~Q1~~	~~Q1~~			~~Q1~~				~~Q1~~			~~Q1~~	~~Q1~~	~~Q1~~		The recommended Final CAP for the Building 1065 Area has been submitted to the regulatory agencies for review. ORP is measured for the evaluation of redox conditions, in accordance with recommendations from the Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites. **Notes:** Four wells will be abandoned prior to 2nd Quarter 2007 in accordance with the Bldg 1065 Implementation Work Plan: 1065PZ1A, 1065PZ1B, 1065MW9A, and 1065MW9B. One new well will be installed prior to 2nd Quarter 2007: 1065MW103A. Well 1065MW103A will be sampled during 2nd Quarter 2007 for the anlayses required in the Final CAP. Because this well is being sampled during the 2nd Quarter 2007, water levels in all site wells will be measured this quarter.
~~Bldg 1065~~	~~1065PZ1B~~	~~Q1~~	~~Normal~~	~~Truck~~	~~1~~		~~Q1~~						~~Q1 (15)~~			~~Q1~~	~~Q1~~	~~Q1~~			~~Q1~~				~~Q1~~			~~Q1~~	~~Q1~~	~~Q1~~		
Bldg 1065	1065PZ2A	Q1, Q2	Low Flow	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ2B	Q1, Q2	Normal	Truck	1		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ3A	Q1, Q2	Low Flow	Truck	2		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ3B	Q1, Q2	Normal	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ4A	Q1, Q2	Low Flow	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ4B	Q1, Q2	Modified	Truck	1		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ5AR	Q1, Q2	Normal	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ5B	Q1, Q2	Modified	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ6A	Q1, Q2	Modified	Truck	4		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ6B	Q1, Q2	Normal	Truck	1		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ7A	Q1, Q2	Modified	Truck	1		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ7B	Q1, Q2	Modified	Truck	1		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
~~Bldg 1065~~	~~1065MW9A~~	~~Q1~~	~~Normal~~	~~Truck~~	~~3~~		~~Q1~~						~~Q1 (15)~~			~~Q1~~	~~Q1~~	~~Q1~~				~~Q1~~			~~Q1~~			~~Q1~~	~~Q1~~	~~Q1~~		
~~Bldg 1065~~	~~1065MW9B~~	~~Q1~~	~~Normal~~	~~Truck~~	~~3~~		~~Q1~~						~~Q1 (15)~~			~~Q1~~	~~Q1~~	~~Q1~~				~~Q1~~			~~Q1~~			~~Q1~~	~~Q1~~	~~Q1~~		**Upcoming Milestones:** The Final CAP for the Building 1065 Area was approved in January 2007. Construction is anticipated to begin in Summer 2007. Monitoring will continue following remediation in accordance with the Final CAP. ~~All wells and piezometers at Building 1065 are proposed to be sampled on an annual basis as shown until implementation of the Building 1065 CAP, after which sampling will be in accordance with CAP requirements.~~
Bldg 1065	1065MW10A	Q1, Q2	Normal	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065MW10B	Q1, Q2	Normal	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065MW11A	Q1, Q2	Normal	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065MW11B	Q1, Q2	Normal	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065MW101A	Q1, Q2	Low Flow	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 1065	1065MW102A	Q1, Q2	Low Flow	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 1065	1065MW103A (new well)	Q1, Q2	TBD	Truck	3		Q2						Q2 (4)			Q2	Q2	Q2				Q2			Q2			Q2				
Bldg 1065	1047MW101	Q1, Q2	Normal	Truck	1		Q1						Q1 (15)			Q1	Q1	Q1			Q1				Q1			Q1			Q1 [10]	
Bldg 1027/1065	1027MW01	Q1, Q2	EM	Truck																												
Bldg 1027/1065	1027MW03	Q1, Q2	EM	Truck																												

Table 1B
Proposed Sampling Schedule Second Quarter 2007
Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

		Sampling Information				Analytical Requirements																											
Site Name/ID	Well ID	Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases[4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals[5,6]	Total Metals[5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	ORP[8]	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHfo	TPHss	Notes/Upcoming Milestones
						1625	various	EPA 9060	EPA 3810 / RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	(field probe)	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015	
Bldg 207/231	207GW03	Q	Normal	Truck	2		Q2						Q2 (14)			Q2	Q2	Q2			Q2				Q2			Q2	Q2	Q2		
Bldg 207/231	231GW06	Q	Normal	Truck	1		Q2						Q2 (14)			Q2	Q2	Q2			Q2				Q2			Q2	Q2	Q2		
Bldg 207/231 (Fill Sites 6A and 6B)	231GW09	Q	Modified	Truck	1		Q1,Q2,Q3						Q1,Q3 (22)			Q1,Q2,Q3	Q1,Q2,Q3	Q1,Q2,Q3			Q2				Q1,Q2,Q3			Q2	Q2	Q2		~~The Recommended Final CAP for the Building 207/231 Area has been submitted to the stakeholders. The reduction in sampling frequency to annual (during First Quarter, except monitoring well 231GW09) for all wells until the CAP is implemented has been approved. Monitoring of 207/231 wells is required at least two months prior to the Building 231/207 Area remedial action in order to establish a baseline of pre-construction TPH and arsenic data (currently anticipated to be during the Second Quarter 2007), in accordance with the Building 207/231 CAP. Thus, the annual sampling for the Building 207/231 wells in 2007 will be postponed until the Second Quarter 2007.~~ **Notes:** Annual sampling of the 207/231 wells was postponed from 1st Quarter 2007 to 2nd Quarter 2007 because remediation was anticipated to begin in Summer 2007. Construction has now been delayed until Summer 2008. Therefore, the annual sampling for the Building 207/231 wells will be conducted during 2nd Quarter 2007, instead of 1st Quarter 2007.
Bldg 207/231	231GW10	Q	Low Flow	Truck	2		Q2						Q2 (14)			Q2	Q2	Q2			Q2				Q2			Q2	Q2	Q2		
Bldg 207/231	231GW11	Q	Modified	Truck	1		Q2						Q2 (14)			Q2	Q2	Q2			Q2				Q2			Q2	Q2	Q2		
Bldg 207/231	231GW13	Q	Normal	Truck	1		Q2						Q2 (14)			Q2	Q2	Q2			Q2				Q2			Q2	Q2	Q2		
Bldg 207/231	231GW15	Q	Normal	Truck	1		Q2						Q2 (14)			Q2	Q2	Q2			Q2				Q2			Q2	Q2	Q2		
Bldg 207/231	231GW16	Q	Low Flow	Truck	3		Q2						Q2 (14)			Q2	Q2	Q2			Q2				Q2			Q2	Q2	Q2		
Bldg 207/231	231GW17	Q	Normal	Truck	2		Q2						Q2 (14)			Q2	Q2	Q2			Q2				Q2			Q2	Q2	Q2		
Bldg 207/231	231GW18	Q	Normal	Truck	2		Q2						Q2 (14)			Q2	Q2	Q2			Q2				Q2			Q2	Q2	Q2		
Bldg 207/231	231GW19	Q	Normal	Truck	1		Q2						Q2 (14)			Q2	Q2	Q2			Q2				Q2			Q2	Q2	Q2		
Bldg 207/231	231GW20	Q	Normal	Truck	2		Q2						Q2 (14)			Q2	Q2	Q2			Q2				Q2			Q2	Q2	Q2		
Bldg 207/231	231GW21	Q	Low Flow	Truck	4		Q2						Q2 (14)			Q2	Q2	Q2			Q2				Q2			Q2	Q2	Q2		
Bldg 207/231	231GW22	Q	Low Flow	Truck	4		Q2						Q2 (14)			Q2	Q2	Q2			Q2				Q2			Q2	Q2	Q2		
Bldg 207/231	231GW23	Q	Modified	Truck	2		Q2						Q2 (14)			Q2	Q2	Q2			Q2				Q2			Q2	Q2	Q2		
Bldg 207/231	231GW24	Q	Normal	Truck	1		Q2						Q2 (14)			Q2	Q2	Q2			Q2				Q2			Q2	Q2	Q2		~~Well 231GW09 includes monitoring requirements for Fill Site 6A and 6B. Sampling will be performed per the CAP following the remedial action. ORP is measured for the evaluation of redox conditions, in accordance with recommendations from the Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites.~~
Bldg 207/231	231GW25	Q	Modified	Truck	2		Q2						Q2 (14)			Q2	Q2	Q2			Q2				Q2			Q2	Q2	Q2		
Bldg 207/231	231GW26	Q	Normal	Truck	2		Q2						Q2 (14)			Q2	Q2	Q2			Q2				Q2			Q2	Q2	Q2		
Bldg 207/231	231GW27	Q	Normal	Truck	2		Q2						Q2 (14)			Q2	Q2	Q2			Q2				Q2			Q2	Q2	Q2		
Bldg 207/231	231GW28	Q	Modified	Truck	2		Q2						Q2 (14)			Q2	Q2	Q2			Q2				Q2			Q2	Q2	Q2		
Bldg 207/231	231GW29	Q	Normal	Truck	2		Q2						Q2 (14)			Q2	Q2	Q2			Q2				Q2			Q2	Q2	Q2		
Bldg 207/231	231GW30	Q	Low Flow	Truck	3		Q2						Q2 (14)			Q2	Q2	Q2			Q2				Q2			Q2	Q2	Q2		
Bldg 207/231	231PZ01	Q	Low Flow	Truck	4		Q2						Q2 (14)			Q2	Q2	Q2			Q2				Q2			Q2	Q2	Q2		**Upcoming Milestones:** The Final CAP for the Building 207/231 Area has been approved. Sampling of 207/231 wells will continue on an annual basis until remediation is implemented. Remediation is expected to begin in Summer 2008. Post-remediation monitoring will continue in accordance with the CAP following remediation.
Bldg 207/231	231PZ02	Q	Low Flow	Truck	4		Q2						Q2 (14)			Q2	Q2	Q2			Q2				Q2			Q2	Q2	Q2		
Bldg 207/231	231PZ03	Q	Low Flow	Truck	4		Q2						Q2 (14)			Q2	Q2	Q2			Q2				Q2			Q2	Q2	Q2		
Bldg 207/231	231PZ04	Q	Low Flow	Truck	4		Q2						Q2 (14)			Q2	Q2	Q2			Q2				Q2			Q2	Q2	Q2		
Bldg 207/231	OW-1	Q	EM	Truck																												

Table 1B
Proposed Sampling Schedule Second Quarter 2007
Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

		Sampling Information				Analytical Requirements																												
Site Name/ID	Well ID	Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases[4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals[5,6]	Total Metals[5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	ORP[8]	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHfo	TPHss	Notes/Upcoming Milestones
						1625	various	EPA 9060	EPA 3810 / RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	(field probe)	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015		
Mini-CAP Areas	FM14EX07GW102	Q	Normal	Truck	1												Q					Q	Q					Q	Q	Q			
Mini-CAP Areas	FM14EX07GW101	Q	Normal	Truck	1												Q					Q	Q					Q	Q	Q			**Notes:** VOCs and chromium continue to be detected above cleanup levels within 1213GW101, therefore analyses will continue on a quarterly basis within this well. For all other mini-CAP wells, no chemicals have been detected above cleanup levels. Samples will be collected at FM14EX07GW101 and -102 during the 2nd Quarter 2007 to collect additional data. For all other mini-CAP wells, no analyses are proposed. ~~Quarterly analysis of dissolved metals and general chemistry parameters are proposed for wells 1213GW101 and 1221GW104 to evaluate conditions upgradient of Battery Howe/Wagner. VOCs were detected within 1213GW101 during the Third Quarter 2006, therefore, VOC analyses will continue on a quarterly basis within this well. The PAH, fluoranthene, was detected within FM14EX07GW102 and 514AGW101 during the First and/or Third Quarters 2006 and therefore, PAH analyses are scheduled to be conducted quarterly within wells with detections (FM14EX07GW101, FM14EX07GW102, 1213GW101, and 514AGW101). TPH compounds will continue to be analyzed within wells with detections (FM14EX~~
Mini-CAP Areas	1260GW102	~~Q~~	Normal	Truck	1																											
Mini-CAP Areas	1260GW103	~~Q~~	Normal	Truck	1																											
Mini-CAP Areas	1260GW101	~~Q~~	Normal	Truck	1																											
Mini-CAP Areas	1213GW101	Q	Normal	Truck	3		Q						Q (22)				Q				Q		Q					Q	Q	Q			
Mini-CAP Areas	1221GW103	~~Q~~	Normal	Truck	1																											
Mini-CAP Areas	1221GW102	~~Q~~	Normal	Truck	2																											
Mini-CAP Areas	1221GW104	~~Q~~	Normal	Truck	1		~~Q~~						~~Q (22)~~				~~Q~~															
Mini-CAP Areas	1221GW101	~~Q~~	Normal	Truck	1																											**Upcoming Milestones:** Sampling will continue as shown in Mini-CAP monitoring wells until a decision document has been completed.
Mini-CAP Areas	514AGW101	~~Q~~	Normal	Truck	1												~~Q~~					~~Q~~	~~Q~~					~~Q~~	~~Q~~	~~Q~~			
Upgradient	UBR01GW01		EM	Truck																												**Notes:** Based on the large historical data set, water level measurements and samples are not being collected ~~will no longer be taken~~ at these wells.
Upgradient	UBR02GW01		EM	Truck																												
Upgradient	UBR02GW02		EM	Truck																												
Upgradient	UBR03GW01		EM	Truck																												
Upgradient	UBR03GW02		EM	Truck																												
Tennessee Hollow	TH-1		EM	Hand																												
Tennessee Hollow	TH-2		EM	Truck																												
Tennessee Hollow	TH-3		EM	Truck																												
Tennessee Hollow	TH-4		EM	Hand																												
Tennessee Hollow	PGFGW100		EM	Truck																												
Tennessee Hollow	10GW100		EM	Truck																												

Table 1B
Proposed Sampling Schedule Second Quarter 2007
Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

		Sampling Information				Analytical Requirements																													
Site Name/ID	Well ID	Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases[4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals[5,6]	Total Metals[5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	ORP[8]	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHfo	TPHss	Notes/Upcoming Milestones
						1625	various	EPA 9060	EPA 3810 / RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	(field probe)	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015		
Landfill 10	LF10GW01	Q	Modified	Hand	1		Q1						Q1 (23)			Q1	Q					Q1						Q	Q	Q		**Notes:** TPH diesel and fuel oil have been detected at significant concentrations at LF10SP01 during recent monitoring. TPH will continue to be monitored on a quarterly basis. ~~A Feasibility Study (FS) for Landfills 8 and 10 has been prepared. The Trust is preparing a RAP for the two landfill sites, which is anticipated to be distributed to stakeholders in 2007. LF10GW02 and LF10SP01 could not be sampled during Q1, Q2, or Q3 2006 due to thick vegetation. The brush has been cleared and samples were collected at these locations during Q4 2006. The sampling frequency at these two locations has returned to match the remainder of the site. TPH analyses have been increased from annual to quarterly in all Landfill 10 wells and seep due to recent detections in groundwater at Landfill 10. The TPH data will be evaluated in the RAP.~~
Landfill 10	LF10GW02	Q	Normal	Hand	1		Q1						Q1 (23)			Q1	Q					Q1						Q	Q	Q		
Landfill 10	LF10GW03	Q	Modified	Hand	2		Q1						Q1 (23)			Q1	Q					Q1						Q	Q	Q		
Landfill 10	LF10GW100	Q	Normal	Truck	2		Q1						Q1 (23)			Q1	Q					Q1						Q	Q	Q		
Landfill 10	LF10SP01	Q	Surface	Hand	4		Q1						Q1 (23)	Q1 (23)		Q1	Q					Q1						Q	Q	Q		**Upcoming Milestones:** Landfill 10 will be addressed in RAP4. Due to significant detections of TPH in recent sampling events, the Landfill 10 data will continue to be reviewed on a quarterly basis and sampling will be adjusted as necessary during preparation of RAP4.

Notes
1 - Normal, Low Flow, Modified, and Surface water sampling techniques. A description of sampling techniques can be found in the *Field Sampling Plan, Presidio Groundwater Monitoring Project* (Treadwell & Rollo, 2001a).
2 - Truck - Well accessible by truck
LIV - Low Impact Vehicle - Well accessible by LIV or hand truck only
Hand - Well accessible by hand truck only
3 - Sampling Order: At each site sample the wells with the lowest number first. For example, sample the number 1 wells first, the number 2 wells second etc. The following key explains the numbering system.
1 - Wells without significant detections of chemicals of concern
2 - Wells with occasional detections of low concentrations chemicals of concern
3 - Wells with consistent or recent detections of low concentrations chemicals of concern
4 - Wells with high concentrations of chemicals of concern
5 - Wells with very high concentrations of chemicals of concern. Potential for free phase product.
4 - Dissolved gases include methane, ethane, and ethene.
5 - Beginning with Second Quarter 2003, variance was granted from QAPP specified reporting limit requirements for seven metals.
6 - The table has been reformatted to one dissolved metals column. The number of dissolved metals proposed for analysis are denoted by parentheses. For example, Q (23) indicates the 23 metals list should be analyzed on a quarterly basis. The metals associated with each metals list are detailed below.
23 Metals List - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn.
22 Metals List - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn.
15 Metals List - Al, Sb, As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Pb, Ni and Zn.
14 Metals List - Al, As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Pb, Ni and Zn.
9 Metals List - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn.
8 Metals List - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn.
7 Metals List - As, Cr, Cd, Cu, Pb, Ni and Zn.
4 Metals List - Al, As, Fe, Mn.
3 Metals List - Al, Fe, and Cr.
7 - Dissolved Oxygen (DO) concentration will be included in field sampling logs. DO values should be recorded immediately before sample collection.
8 - Oxidation-Reduction Potential (ORP) is measured within all wells proposed to be sampled using the low flow method using a flow through cell. For specified wells identified to be sampled by either the normal or modified methods and proposed for ORP measurements, ORP will be measured using a down-hole meter.
9 - Total sulfides are analyzed by the laboratory for all samples collected at the Presidio.
10 - Stoddard Solvent is a specialized formulation of gasoline. Laboratory quantification for Stoddard Solvent is achieved by comparing the shape of the analytical chromatogram within the same carbon range as TPHg for a diagnostic combination of spikes. Since TPHg is also proposed for analysis in this well, the comparison between this well and other sites which may be or have been evaluated for Stoddard Solvent will be maintained. Stoddard Solvent has been specified for this well per the Trust's request. The Trust will evaluate the Stoddard Solvent data as part of their Building 1047 investigation.

Bold red text indicates proposed changes for the Second Quarter 2007.
All surface seeps where metals analysis is proposed will have two samples collected; one will be filtered and analyzed for dissolved metals and another one will not be filtered and analyzed for total metals.
EM - Elevation Monitoring only
Surface - Surface Water Sampling per Standard Operating Procedure
Trust - the Presidio Trust will evaluate seep BB3SP01 for flow on a quarterly basis and will inform the sampling crew if a sample can be collected.
Q1, Q3, etc. - Sample during specified quarters only
Q - Sample during all quarters unless otherwise directed
TPHg, TPHd, TPHfo, TPHss: Total Petroleum Hydrocarbons as gasoline, diesel, fuel oil, and stoddard solvent - EPA 3630A: Silica Gel Cleanup Step
General Chemistry Parameters; Alkalinity (total), bicarbonate, carbonate, chloride, fluoride, nitrate+nitrite (as N), sulfate
NDMA - N-nitrosodimethylamine
TBD - To Be Determined

Table 2A
Groundwater Elevation Summary for Presidio Monitoring Wells
Elevations Collected on 26 February 2007
Presidio of San Francisco, California

Site	Well ID	Time	Average Depth to Water [1] (feet)	Top of Casing Elevation [2] (feet PLLW)	Groundwater Elevation [2] (feet PLLW)	Well Type	Water Level Frequency
Building 900s Area	937GW06	14:20	5.38	11.05	5.67	MW	Q
Building 900s Area	937GW07 [3]	14:11	8.52	13.94	5.42	MW	Q
Building 900s Area	937GW12	14:23	2.45	10.34	7.89	MW	Q
Building 900s Area	937GW15	14:13	6.95	12.90	5.95	MW	Q
Building 900s Area	937GW32R	14:40	5.38	10.60	5.22	MW	Q
Building 900s Area	937GW35	14:28	5.97	11.64	5.67	MW	Q
Building 900s Area	937GW37	14:16	6.81	12.74	5.93	MW	Q
Building 900s Area	937GW38	14:20	3.85	10.23	6.38	MW	Q
Building 900s Area	937GW39	14:46	7.88	12.49	4.61	MW	Q
Building 900s Area	937GW42	14:30	5.35	10.62	5.27	MW	Q
Building 900s Area	937GW101	14:29	6.18	11.81	5.63	MW	Q
Building 900s Area	937GW102	14:32	6.35	11.69	5.34	MW	Q
Building 900s Area	937GW103	14:36	6.13	11.56	5.43	MW	Q
Building 900s Area	937GW104	14:52	7.01	11.52	4.51	MW	Q
Building 900s Area	937GW105	14:50	5.40	11.50	6.10	MW	Q
Building 900s Area	937GW106	14:38	9.56	15.20	5.64	MW	Q
Building 900s Area	937GW107	14:42	10.93	15.11	4.18	MW	Q
Building 900s Area	937GW108	14:10	4.89	12.11	7.22	MW	Q
Building 900s Area	950GW108	14:31	7.61	11.60	3.99	MW	Q
Building 900s Area	979GW109	14:19	6.00	10.62	4.62	MW	Q
Building 900s Area	979GW110	14:23	7.08	10.62	3.54	MW	Q
Building 900s Area	979GW111R	14:28	15.47	19.69	4.22	MW	Q
Building 900s Area	979GW112	14:33	15.53	19.72	4.19	MW	Q
Building 900s Area	979GW113	14:16	6.27	10.41	4.14	MW	Q
Building 900s Area	979GW114	14:39	6.86	10.53	3.67	MW	Q
Building 900s Area	979GW115	14:19	8.02	12.26	4.24	MW	Q
Building 900s Area	979GW116	14:15	7.95	12.19	4.24	MW	Q
Building 900s Area	979GW117	14:11	8.98	12.17	3.19	MW	Q
Landfill 8	LF08GW01	9:43	20.81	234.54	213.73	MW	Q
Landfill 8	LF08GW02B	9:50	50.11	225.27	175.16	MW	Q
Landfill 8	LF08GW03	9:48	38.25	230.41	192.16	MW	Q
Landfill 8	LF08GW04	9:52	35.38	234.70	199.32	MW	Q
Landfill 8	LF08GW06	9:45	19.95	234.31	214.36	MW	Q
Landfill 8	LF08PZ01	9:35	13.68	234.34	220.66	PZ	Q
Landfill 8	LF08PZ02	9:38	31.16	234.62	203.46	PZ	Q

Table 2A
Groundwater Elevation Summary for Presidio Monitoring Wells
Elevations Collected on 26 February 2007
Presidio of San Francisco, California

Site	Well ID	Time	Average Depth to Water [1] (feet)	Top of Casing Elevation [2] (feet PLLW)	Groundwater Elevation [2] (feet PLLW)	Well Type	Water Level Frequency
Fill Site 1	LF01GW01	12:47	5.40	105.31	99.91	MW	Q
Fill Site 1	LF01GW02	12:51	22.90	98.98	76.08	MW	Q
Fill Site 1	LF01GW03	13:05	47.78	151.82	104.04	MW	Q
Fill Site 1	LF01GW04	13:14	54.10	159.39	105.29	MW	Q
Fill Site 1	LF01GW05	12:32	8.15	83.72	75.57	MW	Q
Fill Site 1	LF01GW06	13:08	62.54	145.23	82.69	MW	Q
Fill Site 1	LF01GW07	13:08	55.23	162.00	106.77	MW	Q
El Polin Spring	EPSP01 [4]	12:36	Flowing	NM	NM	Seep	Q
Landfill 2	LF02GW01	12:39	0.30	98.57	98.27	MW	Q
Landfill 2	LF02GW02	12:44	2.08	101.99	99.91	MW	Q
Landfill 2	LF02GW04	13:34	17.76	172.60	154.84	MW	Q
Building 1349	1349MW01	12:32	24.80	300.44	275.64	MW	Q
Building 1349	1349MW02	12:47	28.90	311.22	282.32	MW	Q
Building 1349	1349MW03R	13:03	24.66	304.13	279.47	MW	Q
Building 1349	1349MW100	12:56	26.81	309.60	282.79	MW	Q
Building 1349	1349MW101	13:10	25.12	311.63	286.51	MW	Q
Building 1349	1349MW102 [5]	13:12	NM	305.68	NM	MW	Q
Building 1349	1349MW103	12:43	33.34	318.07	284.73	MW	Q
Building 1349	1349MW104	12:29	29.96	314.58	284.62	MW	Q
Building 1349	1349MW105	12:26	26.33	312.05	285.72	MW	Q
Fill Site 5	LF5GW100	10:37	7.48	229.74	222.26	MW	Q
Fill Site 5	LF5GW101	10:40	5.80	234.36	228.56	MW	Q
Fill Site 5	LF5GW102	13:27	25.37	294.76	269.39	MW	Q
Fill Site 5	LF5GW103	13:22	7.48	279.12	271.64	MW	Q
Fill Site 5	LF5GW104	13:19	20.76	286.05	265.29	MW	Q
Fill Site 5	LF5SP100 [4]	10:38	Not Flowing	NM	NM	Seep	Q
Landfill E	DAEGW03	11:48	53.75	107.48	53.73	MW	Q
Landfill E	DAEGW04	12:16	42.10	94.38	52.28	MW	Q
Landfill E	DAEGW05	11:45	52.53	105.65	53.12	MW	Q
Landfill E	DAEGW06	12:02	14.73	119.26	104.53	MW	Q
Landfill E	DAEGW07	11:30	9.52	75.66	66.14	MW	Q
Landfill E	DAEGW08	11:33	19.52	71.66	52.14	MW	Q
Landfill E	DAEGW101	11:42	41.94	107.09	65.15	MW	Q
Landfill E	DAEGW102	12:05	13.10	116.72	103.62	MW	Q
Landfill E	DAEGW103	11:37	27.78	111.73	83.95	MW	Q
Landfill E	DAEGW104	12:08	15.25	120.28	105.03	MW	Q
Landfill E	DAEPZ101	11:57	26.36	113.83	87.47	PZ	Q
Landfill E	DAEPZ102	11:52	28.90	110.09	81.19	PZ	Q
Landfill E	DAESP03 [4]	11:39	Not Flowing	NM	NM	Seep	Q

Table 2A
Groundwater Elevation Summary for Presidio Monitoring Wells
Elevations Collected on 26 February 2007
Presidio of San Francisco, California

Site	Well ID	Time	Average Depth to Water [1] (feet)	Top of Casing Elevation [2] (feet PLLW)	Groundwater Elevation [2] (feet PLLW)	Well Type	Water Level Frequency
Nike Facility	NKGW01	11:39	33.25	278.38	245.13	MW	Q
Nike Facility	NKGW02	11:24	14.10	312.00	297.90	MW	Q
Nike Facility	NKGW03	11:59	15.12	334.60	319.48	MW	Q
Nike Facility	NKGW04	11:28	10.18	299.60	289.42	MW	Q
Nike Facility	NKGW05	11:49	24.50	284.20	259.70	MW	Q
Battery H-W	BHWGW01	12:51	18.78	178.04	159.26	MW	Q
Battery H-W	BHWGW04	12:40	12.00	197.73	185.73	MW	Q
Battery H-W	BHWGW05	12:48	28.48	202.95	174.47	MW	Q
Battery H-W	HWGW100	13:02	27.11	209.68	182.57	MW	Q
Battery H-W	HWGW101	13:05	26.70	214.24	187.54	MW	Q
Battery H-W	HWGW102	12:55	Dry	211.44	174.44 [6]	MW	Q
Fill Site 6	LF6GW100	10:03	12.97	28.73	15.76	MW	Q
Fill Site 6	LF6GW101	9:25	11.98	27.03	15.05	MW	Q
Fill Site 6	LF6GW103	9:39	7.50	18.41	10.91	MW	Q
Fill Site 6	LF6GW104 [7]	11:47	12.77	28.75	15.98	MW	Q
Fill Site 6	LF6GW105	11:54	22.43	41.97	19.54	MW	Q
Fill Site 6	LF6GW106	11:38	10.69	25.69	15.00	MW	Q
Fill Site 6	LF6PZ101	11:17	1.21	10.44	9.23	MW	Q
Fill Site 6	LF6PZ102	11:19	0.19	11.59	11.40	MW	Q
Fill Site 6	LF6PZ103	11:21	2.95	14.09	11.14	MW	Q
Fill Site 6	LF6PZ104	11:23	7.00	17.45	10.45	MW	Q
Fill Site 6	LF6PZ105	11:30	0.25	13.75	13.50	MW	Q
Fill Site 6	LF6PZ106	11:26	4.76	15.23	10.47	MW	Q
Building 1065	1047MW101	10:07	4.69	19.92	15.23	MW	Q
Building 1065	1065MW9A	10:32	3.48	13.31	9.83	MW	Q
Building 1065	1065MW9B	10:36	0.00	13.39	13.39	MW	Q
Building 1065	1065MW10A	10:14	4.30	17.33	13.03	MW	Q
Building 1065	1065MW10B	10:18	3.37	17.40	14.03	MW	Q
Building 1065	1065MW11A	9:51	8.95	23.61	14.66	MW	Q
Building 1065	1065MW11B	9:55	8.72	23.43	14.71	MW	Q
Building 1065	1065MW101	10:40	5.70	13.06	7.36	MW	Q
Building 1065	1065MW102	10:54	3.55	12.83	9.28	MW	Q
Building 1065	1065PZ1A	10:48	5.40	13.30	7.90	PZ	Q
Building 1065	1065PZ1B	10:44	1.51	13.31	11.80	PZ	Q
Building 1065	1065PZ2A	10:27	3.20	12.82	9.62	PZ	Q
Building 1065	1065PZ2B	10:24	1.55	15.56	14.01	PZ	Q
Building 1065	1065PZ3A	9:22	9.60	23.96	14.36	PZ	Q
Building 1065	1065PZ3B	9:18	9.35	23.65	14.30	PZ	Q
Building 1065	1065PZ4A	11:00	5.15	14.19	9.04	PZ	Q
Building 1065	1065PZ4B	10:57	2.45	14.45	12.00	PZ	Q

Table 2A
Groundwater Elevation Summary for Presidio Monitoring Wells
Elevations Collected on 26 February 2007
Presidio of San Francisco, California

Site	Well ID	Time	Average Depth to Water [1] (feet)	Top of Casing Elevation [2] (feet PLLW)	Groundwater Elevation [2] (feet PLLW)	Well Type	Water Level Frequency
Building 1065	1065PZ5AR	10:13	3.39	17.38	13.99	PZ	Q
Building 1065	1065PZ5B	10:10	2.57	17.34	14.77	PZ	Q
Building 1065	1065PZ6A [5]	NM	NM	26.19	NM	PZ	Q
Building 1065	1065PZ6B	9:29	11.00	26.36	15.36	PZ	Q
Building 1065	1065PZ7A	9:42	3.28	16.11	12.83	PZ	Q
Building 1065	1065PZ7B	9:45	2.90	15.73	12.83	PZ	Q
Building 1027	1027MW01	9:13	9.09	23.10	14.01	MW	Q
Building 1027	1027MW03	9:09	9.03	23.57	14.54	MW	Q
Building 207/231	207GW03	9:02	3.91	9.98	6.07	MW	Q
Building 207/231	231GW06	10:41	4.87	13.86	8.99	MW	Q
Building 207/231	231GW09	9:47	13.17	24.28	11.11	MW	Q
Building 207/231	231GW10	9:07	3.25	11.37	8.12	MW	Q
Building 207/231	231GW11	10:36	2.23	11.11	8.88	MW	Q
Building 207/231	231GW13	9:23	2.62	13.70	11.08	MW	Q
Building 207/231	231GW15	9:26	3.72	11.00	7.28	MW	Q
Building 207/231	231GW16	9:28	5.62	10.80	5.18	MW	Q
Building 207/231	231GW17	9:38	1.42	12.50	11.08	MW	Q
Building 207/231	231GW18	9:41	2.65	12.30	9.65	MW	Q
Building 207/231	231GW19	9:43	3.81	12.20	8.39	MW	Q
Building 207/231	231GW20	10:47	2.17	13.30	11.13	MW	Q
Building 207/231	231GW21	10:44	5.36	13.50	8.14	MW	Q
Building 207/231	231GW22	10:19	6.74	15.88	9.14	MW	Q
Building 207/231	231GW23	9:12	3.23	11.84	8.61	MW	Q
Building 207/231	231GW24	9:31	3.98	11.63	7.65	MW	Q
Building 207/231	231GW25	9:15	4.10	12.45	8.35	MW	Q
Building 207/231	231GW26	10:23	7.00	16.13	9.13	MW	Q
Building 207/231	231GW27	10:13	10.42	20.32	9.90	MW	Q
Building 207/231	231GW28	9:51	3.65	12.03	8.38	MW	Q
Building 207/231	231GW29	9:55	2.66	11.11	8.45	MW	Q
Building 207/231	231GW30	9:21	5.60	12.68	7.08	MW	Q
Building 207/231	231PZ01	10:05	6.16	15.47	9.31	PZ	Q
Building 207/231	231PZ02	10:01	5.62	15.13	9.51	PZ	Q
Building 207/231	231PZ03	10:31	5.10	13.95	8.85	PZ	Q
Building 207/231	231PZ04	10:28	4.75	13.60	8.85	PZ	Q
Building 207/231	OW-1	9:58	2.21	13.28	11.07	PZ	Q

Table 2A
Groundwater Elevation Summary for Presidio Monitoring Wells
Elevations Collected on 26 February 2007
Presidio of San Francisco, California

Site	Well ID	Time	Average Depth to Water [1] (feet)	Top of Casing Elevation [2] (feet PLLW)	Groundwater Elevation [2] (feet PLLW)	Well Type	Water Level Frequency
Landfill 10	LF10GW01	9:05	8.61	115.59	106.98	MW	Q
Landfill 10	LF10GW02	9:12	4.02	105.67	101.65	MW	Q
Landfill 10	LF10GW03	9:31	40.91	180.80	139.89	MW	Q
Landfill 10	LF10GW100 [8]	9:14	40.16	175.30	135.14	MW	Q
Landfill 10	LF10SP01 [4]	9:18	Flowing	NM	NM	Seep	Q
Landfill 4	LF04GW03	12:03	18.26	292.70	274.44	MW	Q
Landfill 4	LF4GW100	11:44	20.59	299.84	279.25	MW	Q
Landfill 4	LF4GW101	11:58	Dry	297.35	274.55 [6]	MW	Q
Landfill 4	LF4GW102	11:35	29.03	329.49	300.46	MW	Q
Landfill 4	LF4GW103	11:46	21.61	304.26	282.65	MW	Q
Landfill 4	LF4GW104	11:50	20.22	297.75	277.53	MW	Q
Landfill 4	LF4GW105	11:54	31.05	300.57	269.52	MW	Q
Landfill 4	LF4GW106	11:42	15.92	311.36	295.44	MW	Q
Baker Beach Disturbed Area 1	BB1PZ100 [9]	10:58	3.54	107.48	103.94	PZ	Q
Baker Beach Disturbed Area 1	BB1PZ101 [9]	10:54	4.27	68.36	64.09	PZ	Q
Baker Beach Disturbed Area 2A	BB2ASW100 [4]	11:15	Not Flowing	28.69	NM	Seep	Q
Baker Beach Disturbed Area 3	BB3GW100	10:15	26.31	193.84	167.53	MW	Q
Baker Beach Disturbed Area 3	BB3GW101	10:19	27.39	158.28	130.89	MW	Q
Baker Beach Disturbed Area 3	BB3PZ101 [10]	10:22	Dry	156.97	136.97 [6]	PZ	Q
Baker Beach Disturbed Area 3	BB3PZ102	10:20	Dry	73.18	65.18 [6]	PZ	Q
Baker Beach Disturbed Area 3	BB3SW100	11:25	4.60	67.34	62.74	FMP	Q
Baker Beach Disturbed Area 3	BB3SW101	10:15	2.80	78.98	76.18	FMP	Q
Baker Beach Disturbed Area 3	BB3SW102	10:26	2.48	115.39	112.91	FMP	Q
Baker Beach Disturbed Area 3	BB3SW104	11:28	Not Flowing	66.07	NM	FMP	Q
Mini-CAP Areas	FM14EX07GW101	12:09	28.40	183.43	155.03	MW	Q
Mini-CAP Areas	FM14EX07GW102	12:05	25.94	173.29	147.35	MW	Q
Mini-CAP Areas	1213GW101	13:10	24.15	221.35	197.20	MW	Q
Mini-CAP Areas	1221GW101	12:10	9.58	223.59	214.01	MW	Q
Mini-CAP Areas	1221GW102	12:20	7.42	223.46	216.04	MW	Q
Mini-CAP Areas	1221GW103	12:15	12.09	223.34	211.25	MW	Q
Mini-CAP Areas	1221GW104	12:22	13.66	223.39	209.73	MW	Q
Mini-CAP Areas	1260GW101	13:14	25.57	145.76	120.19	MW	Q
Mini-CAP Areas	1260GW102	13:18	29.22	145.91	116.69	MW	Q

Table 2A
Groundwater Elevation Summary for Presidio Monitoring Wells
Elevations Collected on 26 February 2007
Presidio of San Francisco, California

Site	Well ID	Time	Average Depth to Water [1] (feet)	Top of Casing Elevation [2] (feet PLLW)	Groundwater Elevation [2] (feet PLLW)	Well Type	Water Level Frequency
Mini-CAP Areas	1260GW103	13:12	16.22	145.89	129.67	MW	Q
Mini-CAP Areas	514AGW101	12:22	21.47	201.34	179.87	MW	Q

Notes:
1 - Depth to water reading was measured from the northernmost side of the casing.
The elevation presented is the average of three measurements.
2 - Elevations reported in Presidio Lower Low Water (PLLW) datum.
3 - Top of casing elevation is approximate due to damaged casing.
4 - Surface water sample, no groundwater elevation.
5 - Unable to locate monitoring well / piezometer on 26 February 2007.
6 - Value represents the bottom of casing elevation in PLLW.
7 - The casing associated with monitoring well LF6GW104 was raised on 30 January 2007 because the ground surface had recently been raised.
8 - The lid of monitoring well LF10GW100 has been surveyed by the Trust (175.60 feet PLLW). The elevation difference between the monitoring well lid and the top of casing was measured in the field and has been verified to be 0.30 feet. Therefore, the LF10GW100 top of casing elevation is approximately 175.30 feet PLLW.
9 - Piezometer used to monitor surface water seep location.
10 - BB3PZ101 was formerly named BB3SW103. Additionally, the depth to water measurement (14.45 feet) during the Fourth Quarter 2004 was measured from the ground surface. Subsequently, the ground and the top of casing elevations were surveyed and the depth to water measurement was converted to a top of casing measurement (16.80 feet).
11 - Predicted tidal schedules were taken from:
http://tidesandcurrents.noaa.gov/get_predictions.shtml?year=2007&stn=1813+San+Francisco
12 - Actual high and low tidal schedules and magnitudes were taken from:
http://tidesandcurrents.noaa.gov/station_retrieve.shtml?type=Tide+Data by selecting station number '9414290 San Francisco, CA'. Water level magnitudes were retreived by selecting the appropriate date and converting the data into the PLLW datum.

Predicted Tidal Schedule on 26 February 2007 [11]:
Low Tide - 2:02 PM
High Tide - 6:33 AM

Observed Tidal Schedule and Magnitude on 26 February 2007 [12]:
Low Tide - 2:00 PM (Magnitude -0.09 feet PLLW)
High Tide - 6:36 AM (Magnitude 5.88 feet PLLW)

Acronyms
FMP - Fixed Water Monitoring Point consisting of a slotted PVC casing installed up to 3 feet below ground surface.
MW - Monitoring well
NA - Not applicable
NM - Not measured
PZ - Piezometer
Q - Quarterly monitoring schedule

Table 2B
Groundwater Elevation Summary for Presidio Monitoring Wells
Elevations Collected on 4 June 2007
Presidio of San Francisco, California

Site	Well ID	Time	Average Depth to Water [1] (feet)	Top of Casing Elevation [2] (feet PLLW)	Groundwater Elevation [2] (feet PLLW)	Well Type	Water Level Frequency
Building 1349	1349MW01	11:09	25.71	300.44	274.73	MW	Q
Building 1349	1349MW02	11:02	29.67	311.22	281.55	MW	Q
Building 1349	1349MW03R	11:15	26.64	304.13	277.49	MW	Q
Building 1349	1349MW100	11:36	27.73	309.60	281.87	MW	Q
Building 1349	1349MW101	10:58	26.66	311.63	284.97	MW	Q
Building 1349	1349MW102 [3]	11:30	NM	305.68	NM	MW	Q
Building 1349	1349MW103	11:19	33.76	318.07	284.31	MW	Q
Building 1349	1349MW104	10:53	30.57	314.58	284.01	MW	Q
Building 1349	1349MW105	11:25	26.35	312.05	285.70	MW	Q
Landfill E	DAESP03 [4]	13:30	Not Flowing	NM	NM	Seep	Q
Battery H-W	BHWGW01	11:00	20.75	178.04	157.29	MW	Q
Battery H-W	BHWGW04	10:50	13.28	197.73	184.45	MW	Q
Battery H-W	BHWGW05	10:55	28.12	202.95	174.83	MW	Q
Battery H-W	HWGW100	11:20	27.05	209.68	182.63	MW	Q
Battery H-W	HWGW101	11:15	26.46	214.24	187.78	MW	Q
Battery H-W	HWGW102	11:08	Dry	211.44	174.44 [6]	MW	Q
Comm/PX	600GW101 [5]	NM	NM	10.66	NM	MW	Q
Comm/PX	600GW102	12:07	4.31	10.10	5.79	MW	Q
Comm/PX	600GW103	12:11	2.90	10.31	7.41	MW	Q
Comm/PX	600GW104	12:16	3.57	10.48	6.91	MW	Q
Comm/PX	600GW105	12:42	2.93	17.64	14.71	MW	Q
Comm/PX	600GW106	12:38	3.21	16.04	12.83	MW	Q
Comm/PX	600GW107	12:33	4.61	16.76	12.15	MW	Q
Comm/PX	600GW108	12:29	5.27	12.29	7.02	MW	Q
Comm/PX	600GW109	12:22	4.43	11.67	7.24	MW	Q
Comm/PX	610GW101	11:56	3.60	9.91	6.31	MW	Q
Comm/PX	610GW102	12:01	4.04	10.29	6.25	MW	Q
Comm/PX	610GW103	14:20	5.04	11.13	6.09	MW	Q
Comm/PX	610SP01 [4]	15:00	Not Flowing	NM	NM	Seep	Q
Comm/PX	610SP02 [4]	15:02	Submerged	NM	NM	Seep	Q
Building 1027	1027MW01	9:39	9.29	23.10	13.81	MW	Q
Building 1027	1027MW03	9:32	9.45	23.57	14.12	MW	Q
Building 1065	1047MW101	10:10	5.04	19.92	14.88	MW	Q
Building 1065	1065PZ1A [11]	NM	NM	13.30	NM	PZ	Q
Building 1065	1065PZ1B [11]	NM	NM	13.31	NM	PZ	Q

Table 2B
Groundwater Elevation Summary for Presidio Monitoring Wells
Elevations Collected on 4 June 2007
Presidio of San Francisco, California

Site	Well ID	Time	Average Depth to Water [1] (feet)	Top of Casing Elevation [2] (feet PLLW)	Groundwater Elevation [2] (feet PLLW)	Well Type	Water Level Frequency
Building 1065	1065PZ2A	10:30	3.47	12.82	9.35	PZ	Q
Building 1065	1065PZ2B	13:45	1.92	15.56	13.64	PZ	Q
Building 1065	1065PZ3A	9:46	9.89	23.96	14.07	PZ	Q
Building 1065	1065PZ3B	9:49	9.56	23.65	14.09	PZ	Q
Building 1065	1065PZ4A	11:00	5.54	14.19	8.65	PZ	Q
Building 1065	1065PZ4B	11:03	2.55	14.45	11.90	PZ	Q
Building 1065	1065PZ5AR	10:15	3.84	17.38	13.54	PZ	Q
Building 1065	1065PZ5B	10:12	2.86	17.34	14.48	PZ	Q
Building 1065	1065PZ6A [3]	NM	NM	26.19	NM	PZ	Q
Building 1065	1065PZ6B	9:55	11.41	26.36	14.95	PZ	Q
Building 1065	1065PZ7A	11:16	3.56	16.11	12.55	PZ	Q
Building 1065	1065PZ7B	11:23	3.10	15.73	12.63	PZ	Q
Building 1065	1065MW9A [11]	NM	NM	13.31	NM	MW	Q
Building 1065	1065MW9B [11]	NM	NM	13.39	NM	MW	Q
Building 1065	1065MW10A	10:20	4.30	17.33	13.03	MW	Q
Building 1065	1065MW10B	10:23	3.70	17.40	13.70	MW	Q
Building 1065	1065MW11A	10:00	9.30	23.61	14.31	MW	Q
Building 1065	1065MW11B	10:04	9.12	23.43	14.31	MW	Q
Building 1065	1065MW101A	10:41	5.58	13.06	7.48	MW	Q
Building 1065	1065MW102A	10:55	5.89	12.83	6.94	MW	Q
Building 1065	1065MW103A	10:48	5.11	12.71	7.60	MW	Q
Building 207/231	207GW03	13:11	4.50	9.98	5.48	MW	Q
Building 207/231	231GW06	12:40	5.18	13.86	8.68	MW	Q
Building 207/231	231GW09	11:50	13.41	24.28	10.87	MW	Q
Building 207/231	231GW10	13:14	3.46	11.37	7.91	MW	Q
Building 207/231	231GW11	11:59	2.76	11.11	8.35	MW	Q
Building 207/231	231GW13	12:49	2.94	13.70	10.76	MW	Q
Building 207/231	231GW15	12:53	4.27	11.00	6.73	MW	Q
Building 207/231	231GW16	13:23	5.45	10.80	5.35	MW	Q
Building 207/231	231GW17	13:05	1.60	12.50	10.90	MW	Q
Building 207/231	231GW18	13:08	2.76	12.30	9.54	MW	Q
Building 207/231	231GW19	13:12	4.46	12.20	7.74	MW	Q
Building 207/231	231GW20	12:47	2.50	13.30	10.80	MW	Q
Building 207/231	231GW21	12:43	5.60	13.50	7.90	MW	Q
Building 207/231	231GW22	12:13	6.77	15.88	9.11	MW	Q

Table 2B
Groundwater Elevation Summary for Presidio Monitoring Wells
Elevations Collected on 4 June 2007
Presidio of San Francisco, California

Site	Well ID	Time	Average Depth to Water [1] (feet)	Top of Casing Elevation [2] (feet PLLW)	Groundwater Elevation [2] (feet PLLW)	Well Type	Water Level Frequency
Building 207/231	231GW23	13:00	3.40	11.84	8.44	MW	Q
Building 207/231	231GW24	12:56	4.47	11.63	7.16	MW	Q
Building 207/231	231GW25	13:07	4.27	12.45	8.18	MW	Q
Building 207/231	231GW26	12:11	7.31	16.13	8.82	MW	Q
Building 207/231	231GW27	12:52	10.79	20.32	9.53	MW	Q
Building 207/231	231GW28	11:45	4.08	12.03	7.95	MW	Q
Building 207/231	231GW29	11:41	2.68	11.11	8.43	MW	Q
Building 207/231	231GW30	13:18	5.10	12.68	7.58	MW	Q
Building 207/231	231PZ01	12:20	6.31	15.47	9.16	PZ	Q
Building 207/231	231PZ02	12:23	6.04	15.13	9.09	PZ	Q
Building 207/231	231PZ03	12:27	5.60	13.95	8.35	PZ	Q
Building 207/231	231PZ04	12:31	5.20	13.60	8.40	PZ	Q
Building 207/231	OW-1	15:15	2.40	13.28	10.88	PZ	Q
Landfill 10	LF10GW01	9:38	10.81	115.59	104.78	MW	Q
Landfill 10	LF10GW02	9:45	4.04	105.67	101.63	MW	Q
Landfill 10	LF10GW03	9:22	42.30	180.80	138.50	MW	Q
Landfill 10	LF10GW100 [7]	9:30	41.22	175.30	134.08	MW	Q
Landfill 10	LF10SP01 [4]	9:50	Flowing	NM	NM	Seep	Q
Landfill 4	LF04GW03	10:38	18.61	292.70	274.09	MW	Q
Landfill 4	LF4GW100	10:26	21.60	299.84	278.24	MW	Q
Landfill 4	LF4GW101	9:59	Dry	297.35	274.55 [6]	MW	Q
Landfill 4	LF4GW102	10:33	30.50	329.49	298.99	MW	Q
Landfill 4	LF4GW103	10:20	21.36	304.26	282.90	MW	Q
Landfill 4	LF4GW104	10:14	20.80	297.75	276.95	MW	Q
Landfill 4	LF4GW105	10:08	31.93	300.57	268.64	MW	Q
Landfill 4	LF4GW106	10:29	19.48	311.36	291.88	MW	Q
Baker Beach Disturbed Area 1	BB1PZ100 [8]	10:15	3.61	107.48	103.87	PZ	Q
Baker Beach Disturbed Area 1	BB1PZ101 [8]	10:10	3.78	68.36	64.58	PZ	Q
Baker Beach Disturbed Area 2A	BB2ASW100 [4]	10:22	Not Flowing	28.69	NM	Seep	Q
Baker Beach Disturbed Area 3	BB3GW100	12:00	30.44	193.84	163.40	MW	Q
Baker Beach Disturbed Area 3	BB3GW101	11:34	27.41	158.28	130.87	MW	Q
Baker Beach Disturbed Area 3	BB3PZ101 [9]	11:55	Dry	156.97	136.97 [6]	PZ	Q
Baker Beach Disturbed Area 3	BB3PZ102	11:48	Dry	73.18	65.18 [6]	PZ	Q

Table 2B
Groundwater Elevation Summary for Presidio Monitoring Wells
Elevations Collected on 4 June 2007
Presidio of San Francisco, California

Site	Well ID	Time	Average Depth to Water [1] (feet)	Top of Casing Elevation [2] (feet PLLW)	Groundwater Elevation [2] (feet PLLW)	Well Type	Water Level Frequency
Baker Beach Disturbed Area 3	BB3SW100	11:40	4.18	67.34	63.16	FMP	Q
Baker Beach Disturbed Area 3	BB3SW101	11:52	2.87	78.98	76.11	FMP	Q
Baker Beach Disturbed Area 3	BB3SW102 [10]	11:25	3.08	115.39	112.31	FMP	Q
Baker Beach Disturbed Area 3	BB3SW104	11:42	Not Flowing	66.07	NM	FMP	Q
Mini-CAP Areas	FM14EX07GW101	13:18	28.86	183.43	154.57	MW	Q
Mini-CAP Areas	FM14EX07GW102	13:15	26.42	173.29	146.87	MW	Q
Mini-CAP Areas	1213GW101	10:45	27.52	221.35	193.83	MW	Q

Notes:
1 - Depth to water reading was measured from the northernmost side of the casing.
The elevation presented is the average of three measurements.
2 - Elevations reported in Presidio Lower Low Water (PLLW) datum.
3 - Unable to locate monitoring well / piezometer on 4 June 2007.
4 - Surface water sample, no groundwater elevation.
5 - Well 600GW101 was destroyed in July 2006.
6 - Value represents the bottom of casing elevation in PLLW.
7 - The lid of monitoring well LF10GW100 has been surveyed by the Trust (175.60 feet PLLW). The elevation difference between the monitoring well lid and the top of casing was measured in the field and has been verified to be 0.30 feet. Therefore, the LF10GW100 top of casing elevation is approximately 175.30 feet PLLW.
8 - Piezometer used to monitor surface water seep location.
9 - BB3PZ101 was formerly named BB3SW103. Additionally, the depth to water measurement (14.45 feet) during the Fourth Quarter 2004 was measured from the ground surface. Subsequently, the ground and the top of casing elevations were surveyed and the depth to water measurement was converted to a top of casing measurement (16.80 feet).
10 - Depth to water was measured on 7 June 2007.
11 - Monitoring well / piezometer abandoned in May 2007.
12 - Predicted tidal schedules were taken from:
http://tidesandcurrents.noaa.gov/get_predictions.shtml?year=2007&stn=1813+San+Francisco
13 - Actual high and low tidal schedules and magnitudes were taken from:
http://tidesandcurrents.noaa.gov/station_retrieve.shtml?type=Tide+Data by selecting station number '9414290 San Francisco, CA'. Water level magnitudes were retreived by selecting the appropriate date and converting the data into the PLLW datum.

Predicted Tidal Schedule on 4 June 2007 [12]:
Low Tide - 8:34 AM (Magnitude -0.78 feet PLLW)
High Tide - 4:18 PM (Magnitude 4.62 feet PLLW)

Observed Tidal Schedule and Magnitude on 4 June 2007 [13]:
Low Tide - 8:48 AM (Magnitude -0.72 feet PLLW)
High Tide - 4:00 PM (Magnitude 4.48 feet PLLW)

Acronyms
FMP - Fixed Water Monitoring Point consisting of a slotted PVC casing installed up to 3 feet below ground surface.
MW - Monitoring well
NA - Not applicable
NM - Not measured
PZ - Piezometer
Q - Quarterly monitoring schedule

Table 3
Well Construction Details
Presidio-wide Groundwater Monitoring Program
Presidio of San Francisco, California

Site Name	Well ID	Installation Date	Top of Casing Elevation (feet PLLW)	Total Depth of Boring (feet)	Borehole Diameter (inches)	Casing Diameter (inches)	Bottom of Casing (depth in feet)	Top of Screen (depth in feet)	Bottom of Screen (depth in feet)
Building 900s Area	937GW06	03/02/84	11.05	19	6	2	18.3	3.3	18.3
Building 900s Area	937GW07	03/02/84	13.94	14	6	2	13.6	3.6	13.6
Building 900s Area	937GW12	05/16/84	10.34	15	6	2	12.9	2.9	12.9
Building 900s Area	937GW15	05/17/84	12.90	14.7	6	2	12.3	8.0	12.3
Building 900s Area	937GW32R	04/12/94	10.60	41.5	11	4	40.0	29.5	39.5
Building 900s Area	937GW35	10/09/91	11.64	16.5	10	4	15.5	5.0	15.0
Building 900s Area	937GW37	10/27/92	12.74	16	12	4	14.7	4.7	14.7
Building 900s Area	937GW38	10/28/92	10.23	48.5	12	4	47.0	37.0	47.0
Building 900s Area	937GW39	10/30/92	12.49	45.5	12	4	46.0	35.0	45.0
Building 900s Area	937GW42	04/13/94	10.62	31.7	10.5	4	29.5	19.0	29.0
Building 900s Area	937GW101	06/20/01	11.81	15	8	2	15.0	5.0	15.0
Building 900s Area	937GW102	06/20/01	11.69	30	8	2	30.0	20.0	30.0
Building 900s Area	937GW103	06/21/01	11.56	54	8	2	45.0	35.0	45.0
Building 900s Area	937GW104	06/19/01	11.52	15	8	2	15.0	5.0	15.0
Building 900s Area	937GW105	06/19/01	11.50	30	8	2	30.0	20.0	30.0
Building 900s Area	937GW106	06/27/01	15.20	15	8	2	15.0	5.0	15.0
Building 900s Area	937GW107	06/27/01	15.11	30	8	2	30.0	20.0	30.0
Building 900s Area	937GW108	05/24/02	12.11	15	8	2	15.0	5.0	15.0
Building 900s Area	950GW108	06/29/01	11.60	30	8	2	30.0	20.0	30.0
Building 900s Area	979GW109	06/21/01	10.62	15	8	2	15.0	5.0	15.0
Building 900s Area	979GW110	06/22/01	10.62	30	8	2	30.0	20.0	30.0
Building 900s Area	979GW111R	06/28/01	19.69	15	8	2	15.0	5.0	15.0
Building 900s Area	979GW112	06/28/01	19.72	30	8	2	30.0	20.0	30.0
Building 900s Area	979GW113	06/25/01	10.41	15	8	2	15.0	5.0	15.0
Building 900s Area	979GW114	06/22/01	10.53	30	8	2	30.0	20.0	30.0
Building 900s Area	979GW115	06/22/01	12.26	15	8	2	15.0	5.0	15.0
Building 900s Area	979GW116	06/26/01	12.19	30	8	2	30.0	20.0	30.0
Building 900s Area	979GW117	06/25/01	12.17	45	8	2	45.0	35.0	45.0
Landfill 8	LF08GW01	09/25/90	234.54	50	10	4	44.5	34.0	44.0
Landfill 8	LF08GW02B	08/21/94	225.27	70	10	4	59.0	49.0	59.0
Landfill 8	LF08GW03	10/01/90	230.41	56.5	10	4	43.25	33.0	43.0
Landfill 8	LF08GW04	10/03/90	234.70	56.5	10	4	43.1	33.1	43.1
Landfill 8	LF08GW06	08/25/96	234.31	32	10	4	24.0	18.5	23.5
Landfill 8	LF08PZ01	08/25/96	234.34	30	8	2	22.5	12.0	22.0
Landfill 8	LF08PZ02	08/22/96	234.62	39.5	8	2	38.0	17.5	37.5
DEH Area	DEHGW01	08/13/92	11.18	14	10	4	13.2	2.7	12.7
DEH Area	DEHGW03	08/18/92	12.82	15.5	10.5	4	15.5	5.0	15.0
DEH Area	DEHGW05	05/24/99	10.36	15	10	4	15.0	4.5	14.5
DEH Area	DEHGW06	05/24/99	10.00	14.5	10	4	13.5	3.0	13.0
DEH Area	DEHGW07	05/25/99	12.15	15	10	4	15.0	4.5	14.5
DEH Area	DEHGW08	05/25/99	11.40	15	10	4	15.0	4.5	14.5
DEH Area	DEHGW09	05/25/99	9.91	15	10	4	13.5	3.0	13.0
DEH Area	DEHGW10	05/26/99	10.31	15	10	4	14.5	4.0	14.0
DEH Area	DEHGW11	05/26/99	10.27	15	10	4	14.5	4.0	14.0
DEH Area	DEHGW12	05/26/99	11.00	15	10	4	14.5	4.0	14.0
Fill Site 1	LF01GW01	10/23/90	105.31	18	10	4	16.5	6.0	16.0
Fill Site 1	LF01GW02	10/24/90	98.98	45	10	4	43.5	33.0	43.0
Fill Site 1	LF01GW03	10/31/90	151.82	66.5	10	4	63.0	52.5	62.5
Fill Site 1	LF01GW04	10/26/90	159.39	72.5	10	4	72.5	62.0	72.0
Fill Site 1	LF01GW05	11/01/90	83.72	41.5	10	4	37.0	26.5	36.5
Fill Site 1	LF01GW06	08/20/92	145.23	90	10	4	86.0	75.5	85.5
Fill Site 1	LF01GW07	11/16/94	162.00	70	10.25	4	70.0	59.6	69.6
Landfill 2	LF02GW01	10/19/90	98.57	21	10	4	20.0	9.5	19.5
Landfill 2	LF02GW02	10/22/90	101.99	19	10	4	19.0	8.5	18.5
Landfill 2	LF02GW04	12/09/94	172.60	29.5	10.5	4	29.5	19.0	29.0

Table 3
Well Construction Details
Presidio-wide Groundwater Monitoring Program
Presidio of San Francisco, California

Site Name	Well ID	Installation Date	Top of Casing Elevation (feet PLLW)	Total Depth of Boring (feet)	Borehole Diameter (inches)	Casing Diameter (inches)	Bottom of Casing (depth in feet)	Top of Screen (depth in feet)	Bottom of Screen (depth in feet)
Building 100/104	100GW101	10/07/02	84.45	70.0	8	2	70.0	50.0	70.0
Building 100/104	104GW101	10/07/02	53.88	50.0	8	2	50.0	30.0	50.0
Building 1349	1349MW01	07/20/95	300.44	50	8	4	41.0	28.0	41.0
Building 1349	1349MW02	07/21/95	311.22	50	8	4	46.5	33.5	46.5
Building 1349	1349MW03R	05/01/03	304.13	36	8	2	36.0	19.0	36.0
Building 1349	1349MW100	09/24/02	309.60	40	8	2	40.0	25.0	40.0
Building 1349	1349MW101	04/30/03	311.63	45	8	2	44.0	34.0	44.0
Building 1349	1349MW102	04/22/03	305.68	35	8	2	35.0	25.0	35.0
Building 1349	1349MW103	04/25/03	318.07	48	8	2	48.0	33.0	48.0
Building 1349	1349MW104	04/22/03	314.58	42	8	2	42.0	32.0	42.0
Building 1349	1349MW105	05/01/03	312.05	42	8	2	42.0	30.0	42.0
Fill Site 5	LF5GW100	07/13/00	229.74	28	8	2	20.5	10.0	20.0
Fill Site 5	LF5GW101	07/13/00	234.36	21	8	2	21.0	10.0	20.0
Fill Site 5	LF5GW102	04/22/03	294.76	40	8	2	40.0	30.0	40.0
Fill Site 5	LF5GW103	04/21/03	279.12	23.5	8	2	22.0	12.0	22.0
Fill Site 5	LF5GW104	04/21/03	286.05	32	8	2	32.0	22.0	32.0
Landfill 4	LF04GW03	12/20/94	292.70	39.5	10.25	4	18.5	8.1	18.1
Landfill 4	LF4GW100	08/24/00	299.84	22.5	8	2	22.5	12.0	22.0
Landfill 4	LF4GW101	07/13/00	297.35	22.8	8	2	22.8	12.5	22.5
Landfill 4	LF4GW102	02/27/03	329.49	45	8	2	45.0	35.0	45.0
Landfill 4	LF4GW103	02/26/03	304.26	45	8	2	35.0	45.0	45.0
Landfill 4	LF4GW104	02/26/03	297.75	42	8	2	42.0	32.0	42.0
Landfill 4	LF4GW105	02/26/03	300.57	48.5	8	2	48.5	38.5	48.5
Landfill 4	LF4GW106	02/26/03	311.36	40	8	2	40.0	30.0	40.0
Building 637	637-01R	01/19/94	12.24	17	10.25	4	16.0	11.3	16.0
Building 637	637-19	01/25/94	11.81	21	10.25	4	20.0	10.4	20.0
Building 637	637-26	11/09/95	10.98	6	10	4	6.0	3.5	6.0
Building 637	637-27	11/08/95	11.70	6	10	4	6.0	2.5	6.0
Building 637	637-33	02/03/98	12.54	28	8.5	2	21.0	10.5	20.5
Building 637	637-34	10/20/99	12.94	8	7	2	7.8	4.8	7.8
Building 637	637-35	10/20/99	15.21	12.5	7	2	11.0	7.0	11.0
Building 637	637-36	10/21/99	14.31	8.5	7	2	8.0	5.0	8.0
Building 637	637-37	10/21/99	13.78	7	7	2	7.0	4.0	7.0
Building 637	637-38	10/20/99	11.69	8.5	7	2	6.0	3.0	6.0
Building 637	637-39R	07/27/01	10.25	6	8	2	6.0	3.0	6.0
Building 637	637-40	10/20/99	10.25	16	7	2	14.5	9.5	14.5
Building 637	LF07GW11	11/07/95	12.75	6	10.25	4	6.0	2.5	6.0
Commissary/PX	600GW101	08/06/02	10.66	7	8	2	7.0	3.0	7.0
Commissary/PX	600GW102	08/06/02	10.10	7	8	2	7.0	3.0	7.0
Commissary/PX	600GW103	08/05/02	10.31	7	8	2	6.5	3.0	6.5
Commissary/PX	600GW104	08/06/02	10.48	7	8	2	7.0	3.0	7.0
Commissary/PX	600GW105	08/05/02	17.64	10	8	2	8.0	3.0	8.0
Commissary/PX	600GW106	08/05/02	16.04	8	8	2	8.0	3.0	8.0
Commissary/PX	600GW107	08/02/02	16.76	8	8	2	8.0	3.0	8.0
Commissary/PX	600GW108	08/02/02	12.29	8	8	2	8.0	3.0	8.0
Commissary/PX	600GW109	08/05/02	11.67	8	8	2	8.0	3.0	8.0
Commissary/PX	610GW101	07/27/01	9.91	6	8	2	6.0	3.0	6.0
Commissary/PX	610GW102	07/27/01	10.29	5.5	8	2	5.5	2.5	5.5
Commissary/PX	610GW103	07/27/01	11.13	7	8	2	7.0	3.0	7.0

Table 3
Well Construction Details
Presidio-wide Groundwater Monitoring Program
Presidio of San Francisco, California

Site Name	Well ID	Installation Date	Top of Casing Elevation (feet PLLW)	Total Depth of Boring (feet)	Borehole Diameter (inches)	Casing Diameter (inches)	Bottom of Casing (depth in feet)	Top of Screen (depth in feet)	Bottom of Screen (depth in feet)
Landfill E	DAEGW03	08/17/92	107.48	93	10	4	78.0	67.5	77.5
Landfill E	DAEGW04	10/21/92	94.38	65	10	4	64.0	54.0	64.0
Landfill E	DAEGW05	10/23/92	105.65	84.5	10	4	71.0	61.0	71.0
Landfill E	DAEGW06	12/16/94	119.26	41	10.25	4	40.6	30.6	40.6
Landfill E	DAEGW07	12/06/94	75.66	12	10.5	4	8.0	3.5	7.5
Landfill E	DAEGW08	12/07/94	71.66	32.5	10.5	4	32.5	22.0	32.0
Landfill E	DAEGW101	11/13/02	107.09	45.5	8	2	42.0	32.0	42.0
Landfill E	DAEGW102	11/13/02	116.72	35	8	2	30.0	20.0	30.0
Landfill E	DAEGW103	11/15/02	111.73	36	8	2	35.0	25.0	35.0
Landfill E	DAEGW104	11/14/02	120.28	35	8	2	42.0	32.0	42.0
Landfill E	DAEPZ101	11/15/02	113.83	36.5	8	2	29.0	19.0	29.0
Landfill E	DAEPZ102	11/14/02	110.09	41	8	2	34.0	24.0	34.0
Nike Facility	NKGW01	08/20/92	278.38	48	10.5	4	48.0	37.5	47.5
Nike Facility	NKGW02	12/12/94	312.00	20.5	12.25	4	20.5	10.0	20.0
Nike Facility	NKGW03	12/12/94	334.60	19.5	10.5	4	15.15	8.5	13.5
Nike Facility	NKGW04	12/12/94	299.60	20.9	12.25	4	20.9	10.5	20.5
Nike Facility	NKGW05	12/13/94	284.20	34	12.25	4	34.0	23.6	33.6
Baker Beach Disturbed Area 1	BB1PZ100	04/21/05	107.48	17	7	2	15.5	10.2	15.5
Baker Beach Disturbed Area 1	BB1PZ101	04/22/05	68.36	10	7	2	9.5	4.2	9.5
Baker Beach Disturbed Area 3	BB3GW100	12/06/04	193.84	36.5	8	2	36.0	26.0	36.0
Baker Beach Disturbed Area 3	BB3GW101	12/06/04	158.28	31.25	8	2	25.0	15.0	25.0
Baker Beach Disturbed Area 3[1]	BB3PZ101	12/13/04	156.97	48	8	2	18.0	3.0	18.0
Baker Beach Disturbed Area 3[1]	BB3PZ102	03/01/06	73.18	6.5	3	2	6.5	0.0	6.5
Baker Beach Disturbed Area 3[2]	BB3SW100	12/08/04	67.34	2.5	8	2	2.5	-1.89	2.5
Baker Beach Disturbed Area 3[2]	BB3SW101	12/08/04	78.98	3	8	2	3.0	-1.00	3.0
Baker Beach Disturbed Area 3[2]	BB3SW102	12/08/04	115.39	2.5	8	2	2.5	-2.19	2.5
Battery H-W	BHWGW01	07/21/92	178.04	29	10.5	4	28.8	18.3	28.3
Battery H-W	BHWGW04	07/22/92	197.73	31	10.25	4	27.7	17.2	27.2
Battery H-W	BHWGW05	08/05/92	202.95	36.5	10.5	4	36.0	25.5	35.5
Battery H-W	HWGW100	07/13/00	209.68	31	8	2	31.0	20.0	30.0
Battery H-W	HWGW101	07/12/00	214.24	31	8	2	31.0	20.0	30.0
Battery H-W	HWGW102	07/12/00	211.44	40	8	2	37.0	26.0	36.0
Fill Site 6	LF6GW100	07/11/00	28.73	23	8	2	23.0	12.0	22.0
Fill Site 6	LF6GW101	07/10/00	27.03	25	8	2	25.0	14.0	24.0
Fill Site 6	LF6GW103	07/11/00	18.41	26	8	2	26.0	15.0	25.0
Fill Site 6	LF6GW104	11/16/05	25.74	25	8	2	25.0	10.0	25.0
Fill Site 6	LF6GW105	11/16/05	41.97	30	8	2	30.0	20.0	30.0
Fill Site 6	LF6GW106	11/17/05	25.69	25	8	2	25.0	10.0	25.0
Building 215	215GW01	10/29/90	50.45	46	11	4	44.67	34.17	44.17
Building 215	215GW02	11/05/90	46.96	41	10	4	40.5	30.0	40.0
Building 215	215GW03	11/06/90	47.58	40.5	10	4	39.5	29.0	39.0

Table 3
Well Construction Details
Presidio-wide Groundwater Monitoring Program
Presidio of San Francisco, California

Site Name	Well ID	Installation Date	Top of Casing Elevation (feet PLLW)	Total Depth of Boring (feet)	Borehole Diameter (inches)	Casing Diameter (inches)	Bottom of Casing (depth in feet)	Top of Screen (depth in feet)	Bottom of Screen (depth in feet)
Building 1065	1065PZ2A	04/17/97	12.82	9	8	2	9.0	3.0	8.0
Building 1065	1065PZ2B	04/17/97	15.56	20	8	2	20.0	16.0	19.5
Building 1065	1065PZ3A	04/17/97	23.96	12	8	2	12.0	8.0	11.0
Building 1065	1065PZ3B	04/18/97	23.65	26	8	2	26.0	22.0	25.0
Building 1065	1065PZ4A	04/18/97	14.19	12	8	2	12.0	6.0	11.0
Building 1065	1065PZ4B	04/18/97	14.45	23	8	2	23.0	18.0	22.0
Building 1065[3]	1065PZ5AR	10/01/02	17.38	9.3	8	2	9.0	4.0	9.0
Building 1065	1065PZ5B	04/21/97	17.34	26	8	2	26.0	21.0	25.0
Building 1065	1065PZ6A	04/23/97	26.19	22	8	2	22.0	14.0	21.0
Building 1065	1065PZ6B	04/24/97	26.36	27	8	2	27.0	24.5	26.5
Building 1065	1065PZ7A	04/22/97	16.11	12	8	2	12.0	4.0	11.0
Building 1065	1065PZ7B	04/22/97	15.73	25	8	2	25.0	17.0	24.0
Building 1065	1065MW10A	09/25/02	17.33	14	8	2	13.4	6.0	13.0
Building 1065	1065MW10B	09/24/02	17.40	28	14/8	2	28.0	22.0	28.0
Building 1065	1065MW11A	10/01/02	23.61	15.5	8	2	15.0	8.0	15.0
Building 1065	1065MW11B	10/01/02	23.43	31.5	14/8	2	30.0	23.0	30.0
Building 1065	1065MW101A	07/30/04	13.06	11	8	2	10.0	4.5	9.5
Building 1065	1065MW102A	07/30/04	12.83	13	8	2	7.5	4.5	7.5
Building 1065	1065MW103A	05/30/07	12.71	10	8	2	9.0	4.0	9.0
Building 207/231	207GW03	02/02/98	9.98	25	8.5	2	23.5	13.0	23.0
Building 207/231	231GW06	10/24/90	13.86	25	11	4	23.7	13.3	23.3
Building 207/231	231GW09	10/02/91	24.28	23.4	10	4	21.0	10.5	20.5
Building 207/231	231GW10	10/02/91	11.37	18	10	4	9.0	4.5	8.5
Building 207/231	231GW11	10/03/91	11.11	13	10	4	9.5	4.5	9.5
Building 207/231	231GW13	01/10/94	13.70	44	10	4	44.0	33.5	43.5
Building 207/231	231GW15	01/11/95	11.00	20	10.5	4	20.0	14.5	19.5
Building 207/231	231GW16	03/01/95	10.80	8.5	10.5	4	8.5	4.5	8.5
Building 207/231	231GW17	02/28/95	12.50	35.5	10.5	4	35.5	25.0	35.0
Building 207/231	231GW18	02/28/95	12.30	18.5	10.5	4	18.8	15.0	18.3
Building 207/231	231GW19	02/28/95	12.20	9.5	10.5	4	9.8	4.5	9.3
Building 207/231	231GW20	02/28/95	13.30	40.5	10.5	4	40.5	30.0	40.0
Building 207/231	231GW21	03/01/95	13.50	9.1	10.5	4	9.0	4.8	8.8
Building 207/231	231GW22	03/18/97	15.88	10.5	10	4	10.0	3.7	9.7
Building 207/231	231GW23	03/28/97	11.84	8.5	10	4	8.0	3.7	7.7
Building 207/231	231GW24	03/21/97	11.63	9	10	4	8.0	2.7	7.7
Building 207/231	231GW25	03/21/97	12.45	11	10	4	10.5	3.2	10.2
Building 207/231	231GW26	03/17/97	16.13	24.5	10	4	24.0	13.7	23.7
Building 207/231	231GW27	03/28/97	20.32	26.5	10	4	26.0	18.7	25.7
Building 207/231	231GW28	03/28/97	12.03	12	10	4	11.5	7.2	11.2
Building 207/231	231GW29	03/31/97	11.11	18.5	10	4	18.0	14.7	17.7
Building 207/231	231GW30	03/31/97	12.68	10	10	4	9.5	4.2	9.2
Building 207/231	231PZ01	01/15/98	15.47	10	2	1	10.0	2.0	10.0
Building 207/231	231PZ02	01/15/98	15.13	9	2	1	9.0	2.0	9.0
Building 207/231	231PZ03	01/15/98	13.95	9.1	2	1	9.1	2.1	9.1
Building 207/231	231PZ04	01/15/98	13.60	9.3	2	1	9.3	2.3	9.3
Building 207/231	OW-1 [4]	06/27/02	TBD	31	8	2	30.12 [5]	24.87	29.84
Bldg 651	651MW01	02/21/95	15.65	20.5	10.25	4	20.0	10.0	20.0
Bldg 651	651MW02	02/22/95	15.38	16.5	10.25	4	16.0	6.0	16.0
MiniCAPs	514AGW101	08/24/05	201.34	38.5	NR	2	38.5	23.5	38.5
MiniCAPs	1213GW101	08/29/05	221.35	40	NR	2	40.0	20.0	40.0
MiniCAPs	1221GW101	08/25/05	223.59	35	NR	2	35.0	20.0	35.0
MiniCAPs	1221GW102	08/26/05	223.46	15	NR	2	15.0	5.0	15.0
MiniCAPs	1221GW103	08/26/05	223.34	30	NR	2	30.0	20.0	30.0
MiniCAPs	1221GW104	08/29/05	223.39	30.1	NR	2	30.0	20.0	30.0

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MiniCAPs	1260GW101	08/30/05	145.76	31	NR	2	30.0	15.0	30.0
MiniCAPs	1260GW102	08/30/05	145.91	40	NR	2	40.0	20.0	40.0
MiniCAPs	1260GW103	08/31/05	145.89	35.5	NR	2	35.0	15.0	35.0
MiniCAPs	FM14EX07GW101	08/23/05	183.43	45	NR	2	45.0	25.0	45.0
MiniCAPs	FM14EX07GW102	08/24/05	173.29	46.3	NR	2	45.0	25.0	45.0
Graded Area 9	LF9GW100A	06/16/00	247.19	36	8	2	35.0	25.0	35.0
Graded Area 9	LF9GW100B	06/20/00	246.46	18.5	8	2	18.0	8.0	18.0
Graded Area 9	LF9GW101	06/16/00	234.95	45	8	2	40.0	29.0	39.0
Graded Area 9	LF9GW102	06/19/00	235.86	35.5	8	2	35.5	25.0	35.0
Building 1027	1027MW01	05/11/95	23.10	18.5	10.25	4	18.0	7.5	17.5
Building 1027	1027MW03	02/27/95	23.57	17.5	10.25	4	17.5	7.0	17.0
Upgradient	UBR01GW01	02/24/99	164.71	55	8	2	55.0	45.0	55.0
Upgradient	UBR02GW01	02/25/99	253.39	48.5	8	2	48.5	48.0	33.0
Upgradient	UBR02GW02	02/26/99	253.56	29.5	8	2	29.0	24.0	29.0
Upgradient	UBR03GW01	02/23/99	171.22	75	8	2	65.5	50.0	65.0
Upgradient	UBR03GW02	02/24/99	170.96	36.5	8	2	36.5	31.0	36.0
Tennessee Hollow	TH-1	09/14/93	80.76	40	8.5	2	40.0	30.0	30.0
Tennessee Hollow	TH-2	09/15/93	111.26	70	8.5	2	70.0	60.0	70.0
Tennessee Hollow	TH-3	09/14/93	64.68	30	8.5	2	30.0	20.0	30.0
Tennessee Hollow	TH-4	09/15/93	44.59	16.5	8.5	2	15.0	10.0	15.0
Tennessee Hollow	PGFGW100	02/04/02	133.71	53.5	12	2	53.0	43.0	53.0
Tennessee Hollow	10GW100	02/04/02	76.88	58.5	12	2	58.0	38.0	58.0
Landfill 10	LF10GW01	08/26/94	115.59	18	12	4	17.5	8.5	17.5
Landfill 10	LF10GW02	08/25/94	105.67	12	12	4	11.5	6.5	11.5
Landfill 10	LF10GW03	09/01/94	180.80	54	12	4	52.0	42.0	52.0
Landfill 10	LF10GW100	11/19/02	175.30	55	8	2	55.0	45.0	55.0
Golf Course	300GW01	03/22/99	304.21	40	8	2	40.0	30.0	40.0

Footnotes
1 - BB3PZ101 was formerly named BB3SW103
2 - Note BBDA 3 fixed monitoring points
3 - Piezometer construction details for 1065PZ5AR are based on narrative description, last paragraph of Section 4.6, *Interim Data Report, Building 1065 Area, Presidio of San Francisco, California , February 19, 2003,* by MACTEC.

4 - Well construction details for OW-1 are from a .pdf boring log (10-14-2003 E:\Backups\OW-1.bor) provided by the Trust via email on 14 October 2003.
5 - OW-1 total depth was reported as 29.12 feet in a .pdf boring log (10-14-2003 E:\Backups\OW-1.bor) provided by the Trust via email on 14 October 2003. Based on screen interval, this value was assumed to be in error and was increased to 30.12.
6 - All well construction details for the Doyle Drive wells were measured from boring logs and converted from metric units as reported in Attachment A to the *Request for Authorization to Perform a Aquifer Testing near Building 230 at the Presidio, San Francisco,* by Baseline Environmental Consulting, 1 April 2002. Boring logs do not indicate sand trap or presence of end caps. Therefore, the bottom of casing is the same as the bottom of the screened interval.
7 - Borehole diameter was not reported for Doyle Drive wells on boring logs included as Attachment B to the *Request for Authorization to Perform a Aquifer Testing near Building 230 at the Presidio, San Francisco* , by Baseline Environmental Consulting, 1 April 2002. Boring method described as "rotary wash" without reference to boring diameter in the *Data Report, Piezometer Installation and Development, Doyle Drive Reconstruction Project, San Francisco,* by Baseline Environmental Consulting, 11 April 2001.

NR - Not reported
PLLW - Presidio Lower Low Water datum
TBD - To be determined

Table 4
Groundwater Purge Volume Calculations
Presidio-wide Groundwater Monitoring Program
Presidio of San Francisco, California

Well Borehole Diameter (inches)	Well Casing Inside Diameter (inches)	Borehole Annular Volume (gallons/foot)	Well Casing Volume (gallons/foot)	Volume of Liquid in 1-foot Well Section (gallons)
2.1	0.75	0.021	0.0031	0.070
2	1	0.016	0.0055	0.077
6	2	0.174	0.0218	0.555
7	2	0.245	0.0218	0.714
8	2	0.327	0.0218	0.897
8	4	0.262	0.0872	1.240
8.5	2	0.372	0.0218	0.998
10	4	0.458	0.0872	1.680
10.25	4	0.486	0.0872	1.742
10.5	4	0.514	0.0872	1.805
11	4	0.572	0.0872	1.937
12	4	0.698	0.0872	2.218

Note

See Groundwater Sampling Standard Operating Procedure No. 002 in the *Field Sampling Plan, Presidio Groundwater Monitoring Project* (Treadwell & Rollo, 2001a) for complete equations for calculating borehole volumes.

Table 5
Analytical Plan Summary
Presidio-wide Groundwater Monitoring Program
Presidio of San Francisco, California

Analyte	Laboratory Method	Container Type and Volume [1]	Preservative [2]	Holding Time [1]
TPH as gasoline [3] (carbon range C7-C12)	Modified EPA 8015B	3 x 40 mL VOAs	HCl	14 Days
TPH as stoddard solvent [3] (carbon range C7-C12)	Modified EPA 8015B	3 x 40 mL VOAs (C&T) 2 x 1L Amber (CAS)	HCl	14 Days
TPH as diesel [4] (carbon range C12-C24)	Modified EPA 8015B	1 x 1L Amber 2 x 1L Amber (CAS)	-	14 Days Extract
TPH as fuel oil [4] (carbon range C24-C36)	Modified EPA 8015B	1 x 1L Amber 2 x 1L Amber (CAS)	-	14 Days Extract
VOCs	EPA 8260B	3 x 40 mL VOAs	HCl	14 Days
BTEX [3]	EPA 8021B	3 x 40 mL VOAs	HCl	14 Days
PAHs	EPA 8310	2 x 1L Ambers	-	7 Days Extract
SVOCs	EPA 8270C	2 x 1L Ambers	-	7 Days Extract
OCPs	EPA 8081	2 x 1L Ambers	-	7 Days Extract
PCBs	EPA 8082	2 x 1L Ambers	-	7 Days Extract
Chlorinated Herbicides	EPA 8151A	2 x 1L Ambers	-	7 Days Extract
Arsenic (III and V) Speciation	EPA 1632 Mod	1 x 250 mL Plastic	HCl	28 Days
Mercury	EPA 7470	1 x 500 mL Plastic	HNO3	28 Days
Dissolved Metals (ICP) [5]	EPA 6010	1 x 500 mL Plastic	HNO3	6 Months
Dissolved Metals (ICP/MS) [5]	EPA 6020	1 x 500 mL Plastic	HNO3	6 Months
Dissolved Gases [6]	RSK 175	3 x 40 mL VOAs	HCl	14 Days
Hexavalent Chromium	EPA 7196A	1 x 250 mL Plastic	-	24 Hours
Dissolved Lead [5]	EPA 7470	1 x 250 mL Plastic	HNO3	28 Days
Cyanide	EPA 335.2	500 mL Plastic (C&T) 1 x 1L Plastic (CAS)	NaOH	14 Days
Sulfide	EPA 376.2	500 mL Plastic (C&T) 1 x 1L Plastic (CAS)	NaOH+ZnOAc	7 Days
TDS [7]	EPA 160.1	1 x 1L Plastic	-	7 Days
TOC	EPA 415.2	3 x 40 mL VOAs	H_2SO_4	28 Days
TSS [7]	EPA 160.2	1 x 1L Plastic	-	7 Days
Perchlorate	EPA 314.0	1 x 250 mL Plastic	-	28 Days
MBAS	EPA 425.1	1 x 1L Plastic	-	48 Hours
NDMA	EPA 1625	2 x 1L Ambers	-	7 Days Extract
1,4-dioxane	EPA 8270C	2 x 1L Ambers	-	7 Days Extract
PBDE	EPA 1614	3 x 1L Ambers	-	7 Days Extract
General Chemistry				
Alkalinity [7]	EPA 310.1	1 x 1L Plastic	-	28 Days
Bicarbonate [7]	EPA 310.1	1 x 1L Plastic	-	28 Days
Carbonate [7]	EPA 310.1	1 x 1L Plastic	-	28 Days
Chloride [7]	EPA 300.0	1 x 1L Plastic	-	28 Days
Fluoride [7]	EPA 300.0	1 x 1L Plastic	-	28 Days
Nitrate as Nitrogen / Nitrite as Nitrogen [7]	EPA 300.0	1 x 1L Plastic	-	48 Hours
Nitrate as Nitrogen/ Nitrite as Nitrogen	EPA 353.2	1 x 125 mL Plastic	H_2SO_4	28 Days
Sulfate [7]	EPA 300.0	1 x 1L Plastic	-	28 Days

Notes

1 - Minimum sample volumes and holding times as specified by the project laboratory Curtis and Tompkins.

2 - All samples will be placed on ice and kept at an EPA prescribed temperature of 4 degrees Celsius.

3 - TPHg, TPHss and BTEX analyses only require one set of 3 VOAs when sampled together.

4 - The bottle set for TPHd and TPHfo analyses are combined into one when sampled together. This analysis includes silica gel cleanup.

5 - Field filtration to be performed in the field using a 0.45 micron filter.

6 - HCl preservation should only be used when CO_2 analysis is not being requested. If CO_2 is being requested, the VOAs should be unpreserved.

7 - All of these analyses can be taken from the same 1L plastic container.

Acronyms

BTEX - Benzene, Toluene, Ethylbenzene, and Xylenes
ICP - Inductively Coupled Plasma
ICP/MS - Inductively Coupled Plasma with Mass Spectography confirmation
NDMA - N-nitrosodimethylamine
OCPs - Organochlorine Pesticides
PAHs - Polycyclic Aromatic Hydrocarbons
PBDE - Polybrominated diphenyl ether
PCBs - Polychlorinated Biphenyls
SVOCs - Semi-Volatile Organic Compounds
TCE - Trichloroethene
TDS - Total Dissolved Solids
TOC - Total Organic Carbon
TPH - Total Petroleum Hydrocarbons
TSS - Total Suspended Solids
VOCs - Volatile Organic Compounds

- = No preservative

Table 6
Water Quality Criteria and Analytical Reporting Limits
Presidio Groundwater Monitoring Program
Presidio of San Francisco, California

Compounds of Potential Concern (COPC)	Water Quality Criteria [1]				QAPP Analytical Reporting Limit [2] (µg/L)	Project Laboratory Reporting Limit (µg/L)
	Surface Water (a) (µg/L)	Freshwater Seep (b) (µg/L)	Saltwater Protection Zone (c) (µg/L)	Drinking Water Cleanup Level (d) (µg/L)		
Inorganic Chemicals						
Antimony	14 (e)	- (f)	-	6	2.0	1.0
Arsenic	190	190 (g)	36	10	2.0	1.0
Barium	-	-	-	1,000	1.0	1.0
Beryllium	-	-	-	4	1.0	1.0
Cadmium	1.1 (h)	1.1 (h)	9.3	5	1.0	1.0
Chloride	-	-	-	250,000	-	100
Chromium (III)	180 (h); (i)	180 (h); (i)	-	50	-	10
Hexavalent Chromium	11	11	50	-	10	10
Chromium (Total)	180 (h); (i)	180 (h); (i)	50	50	2.0	1.0
Cobalt	-	-	-	-	1.0	1.0
Copper	11.8 (h)	11.8 (h)	2.9	1,000 (j)	2.0	1.0
Cyanide	5.2	5.2	5	200	-	10
Lead	3.2 (h)	3.2 (h)	5.6	15 (k)	5.0	3.0
Mercury	0.012 (l)	0.012 (l)	0.025	2	-	0.2
Nickel	158 (h)	158 (h)	7.1	100	2.0	1.0
Selenium	5 (m)	5 (m)	71	50	5.0	5.0
Silver	4.1 (h); (n)	4.1 (h); (n)	2.3 (n)	**50**	1.0	1.0
Thallium	1.7	-	-	2	5.0	1.0
Vanadium	-	-	-	-	10	10
Zinc	106 (h)	106 (h)	58	5,000	2.0	1.0

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	Surface Water (a) (µg/L)	Freshwater Seep (b) (µg/L)	Saltwater Protection Zone (c) (µg/L)	Drinking Water Cleanup Level (d) (µg/L)		
Semivolatile Organic Compounds (by EPA method 8310 except where noted)						
Acenaphthene	1,200	-	-	-	5.0	5
Acenaphthylene	-	-	-	-	2.0	10
Anthracene	9,600	-	-	770 (o)	0.2	0.5
Benzo(a)anthracene	0.0044 (p)	-	-	0.1	0.2	0.1
Benzo(a)pyrene	0.0044 (p)	-	-	0.2	0.2	0.1
Benzo(b)fluoranthene	0.0044 (p)	-	-	0.2	0.2	0.2
Benzo(g,h,i)perylene	-	-	-	**150**	0.2	0.2
Benzo(k)fluoranthene	0.0044 (p)	-	-	2	0.2	0.1
Benzyl Alcohol	-	-	-	-	10	10 (EPA 8270)
Bis(2-ethylhexyl)phthalate	1.8	-	-	4	10	10 (EPA 8270)
Chrysene	0.0044 (p)	-	-	20	0.2	0.1
Dibenzo(a,h)anthracene	0.0044 (p)	-	-	-	0.5	0.2
Dibenzofuran	-	-	-	-	10	10 (EPA 8270)
Fluoranthene	300	-	-	300	0.2	0.4
Fluorene	1,300	-	-	300	1.0	1
Indeno(1,2,3-c,d)-pyrene	0.0044 (p)	-	-	-	0.2	0.14
2-methylnaphthalene	-	-	-	-	10	10 (EPA 8270)
Naphthalene	-	-	-	300	5.0	5
n-nitrosodiphenylamine	5	-	-	-	10	10 (EPA 8270)
Pentachlorophenol	**0.28**	-	7.9	**1**	50	10 (EPA 8270)
Phenanthrene	-	-	-	230	1.0	0.5
Phenol	21,000	-	-	**1**	10	10
Polycyclic Aromatic Hydrocarbons	0.031 (p)	-	0.031	**26**	-	0.1 to 10
Pyrene	960	-	-	230	0.2	0.2

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	Surface Water (a) (µg/L)	Freshwater Seep (b) (µg/L)	Saltwater Protection Zone (c) (µg/L)	Drinking Water Cleanup Level (d) (µg/L)		
Volatile Organic Compounds						
Acetone	-	-	-	-	-	10
Bromodichloromethane	0.56	-	-	80	1.0	0.5
2-Butanone (MEK)	-	-	-	-	-	10
Carbon Tetrachloride	0.25	-	-	0.5	0.5	0.5
Chlorodibromomethane	0.40	-	-	80	-	0.5
Chlorobenzene	680	-	-	70	2.0	0.5
Chloroform	-	-	-	80	0.5	0.5
Chloromethane	-	-	-	-	1.0	1.0
1,4-dichlorobenzene	400		-	**5**	2.4	0.5
1,2-dichloroethane	0.38	-	-	0.5	0.5	0.5
1,1-dichloroethene	**0.057**	**-**	**-**	**6.0**	**0.5**	-
cis-1,2-dichloroethene	**-**	**-**	**-**	**6.0**	-	**0.5**
Methylene Chloride	4.7	-	-	5	4.5	5.0
Tetrachloroethene	0.8	-	-	5	0.5	0.5
1,2,3-trichlorobenzene (s)	**-**	**-**	**-**	**70**	-	**-**
1,2,4-trichlorobenzene	**-**	**-**	**-**	**70**	**10**	-
1,1,1-trichloroethane	-	-	-	200	0.5	0.5
Trichloroethene	2.7	-	-	5	0.5	0.5
Trichlorofluoromethane	-	-	-	**150**	10	0.5
Petroleum Hydrocarbons and Constituents						
Gasoline Range Hydrocarbons	443	443 (q)	1.2	770	-	50
Diesel Range Hydrocarbons	-	-	2.2	880	-	50
Fuel Oil Range Hydrocarbons	-	-	2.2	1,200	-	300
Motor Oil Range Hydrocarbons	-	-	-	1,200	-	300
Benzene	1.2	463	0.51	1	-	0.5
Ethylbenzene	845	845	0.043	700	-	0.5
Toluene	490	490	1.0	150	-	0.5
Tetraethyl Lead	-	-	-	-	-	100
Total Xylenes	318	318	0.13	1,750	-	0.5
Methyl t-butyl ether (MTBE)	-	-	4.4	**13**	**2.0**	**0.5**

Table 6
Water Quality Criteria and Analytical Reporting Limits
Presidio Groundwater Monitoring Program
Presidio of San Francisco, California

Compounds of Potential Concern (COPC)	Water Quality Criteria [1]				QAPP Analytical Reporting Limit [2] (µg/L)	Project Laboratory Reporting Limit (µg/L)
	Surface Water (a) (µg/L)	Freshwater Seep (b) (µg/L)	Saltwater Protection Zone (c) (µg/L)	Drinking Water Cleanup Level (d) (µg/L)		
PCBs, Pesticides, and Herbicides						
Polychlorinated Biphenyls	0.00017 (r)	0.014 (r); (t)	0.03	0.5	-	0.5-1.0
Aldrin	0.00013 (r)	**3**	1.3	-	-	0.05
Chlordane	0.00057 (r)	0.0043 (r)	0.004	0.1	-	0.5
2,4-D	-	-	-	**70**	-	1.0
4,4'-DDD	0.00083 (p)	-	0.001 (t)	-	-	0.1
4,4'-DDE	0.00059 (p)	-	0.001 (t)	-	-	0.1
4,4'-DDT	0.00059 (p)	0.001 (p)	0.001 (t)	-	-	0.1
Dicamba	-	-	-	-	-	1.0
Dieldrin	0.00014 (p)	0.056 (p)	0.0019 (t)	0.5 (s)	-	0.1
Endosulfan	**0.056**	0.056 (p)	0.0087 (t)	-	-	0.05
Endrin	**0.36**	0.036 (p)	0.0023 (t)	2	-	0.1
Endrin Aldehyde (s)	**0.36**	**0.036 (p)**	0.0023 (t)	**2**	-	**0.05**
Endrin Ketone (s)	**0.36**	**0.036 (p)**	0.0023 (t)	**2**	**0.1**	**0.05**
beta-BHC	**0.014**	-	-	**0.3**	**0.05**	**0.05**
gamma-BHC (Lindane)	0.019 (p)	-	0.16	0.2	-	0.05
Heptachlor	0.00021 (p)	0.0038 (p)	0.0036 (t)	0.01 (p)	-	0.1
Heptachlor Epoxide	0.00021 (p)	0.0038 (p)	0.0036 (t)	**0.01**	-	0.05
Isodrin	**0.0013**	**3**	1.3	-	-	0.05
MCPP	-	-	-	-	-	500
Methoxychlor	-	-	-	40	-	0.5

Notes

Edits shown in **bold** text were made on 1 April 2003 based on updated version of Table 7-6 of the QAPP, transmitted from Chris Nelson on 14 March 2003.

1 Water Quality Criteria is from Table 7-6 of the Cleanup Levels Document (EKI, 2002).

2 These are limits established in the QAPP (Tetra Tech, 2001).

- = not established

(a) Cleanup levels are based upon concentrations of COPCs that result in chronic toxicity to aquatic organisms, or to humans through consumption of water and fish, whichever is more stringent. Cleanup levels apply to surface water and groundwater that may exfiltrate directly to surface water, such as Lobos Creek, Mountain Lake, and the Tennessee Hollow Riparian Corridor upon enhancement.

Table 6
Water Quality Criteria and Analytical Reporting Limits
Presidio Groundwater Monitoring Program
Presidio of San Francisco, California

Notes (continued)

(b) Cleanup levels are based upon concentrations of COPCs that result in chronic toxicity to aquatic organisms. Cleanup levels apply to seeps and to groundwater that emerges as freshwater seeps.

(c) Cleanup levels are based upon concentrations of COCs that result in chronic toxicity to marine organisms. Cleanup levels apply to marine or salt water environments.

(d) Cleanup level listed is a promulgated or proposed federal Maximum Contaminant Level (MCL), or promulgated or proposed MCL or action level specific to the State of California. MCLs obtained from U.S. EPA Region IX, *Drinking Water Standards and Health Advisories Tables* , dated February 2000. Drinking water cleanup levels apply to groundwater and surface water at the Presidio.

(e) Cleanup level obtained from Title 40 of the Code of Federal Regulations, Part §131.38, *Establishment of Numerical Criteria for Priority Toxic Pollutants for the State of California , or California Toxics Rule (CTR)* , promulgated 18 May 2000.

(f) Hyphen indicates that a cleanup level is not specified in Presidio Trust QAPP.

(g) Cleanup level obtained from California Environmental Protection Agency, Regional Water Quality Control Board, San Francisco Bay Region, *Water Quality Control Plan, San Francisco Bay Basin. San Francisco Bay Region* ("Basin Plan"), dated 21 June 1995.

(h) Cleanup level is a function of hardness. Value shown is based on a hardness of 100 mg/L as calcium carbonate.

(i) Cleanup level is expressed as a function of the water-effects ratio, as defined in the CTR.

(j) Cleanup level listed is a secondary MCL. Secondary MCLs apply to chemicals in drinking water that adversely affect its odor, taste, or appearance and therefore cause people to discontinue using the water.

(k) MCL based upon treatment technique. Treatment technique and public notification required at action level of 15 µg/L for lead.

(l) Cleanup level for mercury is 0.012 µg/L. However, this level is below the typical analytical method reporting limit of 0.025 µg/L. A cleanup objective of 0.012 µg/L is desirable, but attainment can only be determined at the analytical method reporting limit.

(m) Cleanup level for COC in total recoverable form.

(n) Cleanup level for COC corresponds to instantaneous maximum value.

(o) Cleanup level obtained from Montgomery Watson, *Fuel Product Action Level Development Report, Presidio of San Francisco, California* ("FPALDR").

Table 6
Water Quality Criteria and Analytical Reporting Limits
Presidio-wide Groundwater Monitoring Program
Presidio of San Francisco, California

Notes (continued)

(p) This level is below the typical analytical method reporting limit range of 0.1 to 10 µg/L for semivolatile organic compounds. Cleanup level listed is desirable, but attainment can only be determined at the analytical method reporting limit. Cleanup level is established at the typical analytical method reporting limit range for semivolatile organic compounds assuming no matrix interference. In the event of matrix interference, actual method reporting limits determining compliance with cleanup levels may be raised.

(q) Cleanup level obtained from Montgomery Watson, *Development of Point of Compliance Concentrations (POCCs) for Gasoline in Surface Waters and Sediments of the Proposed Freshwater Stream, Presidio of San Francisco, California* , dated 4 May 1999. Numerical values based upon bioassay studies performed by RWQCB and review of toxicological data published in scientific literature.

(r) Cleanup level applies to total PCBs.

(s) Cleanup level is State of California action level for drinking water.

(t) This level is below the typical analytical method reporting limit range of 0.05 to 0.5 µg/L for PCBs and pesticides. Cleanup level listed is desirable, but attainment can only be determined at the analytical method reporting limit.

Table 7
Duplicate and Quality Control Duplicate Sampling Schedule
Presidio-wide Groundwater Monitoring Program
Presidio of San Francisco, California

					Analytical Requirements																							
Site Name	**Primary Sample Identification**	**C&T Duplicate**	**QC Duplicate**	**Date Sampled**	NDMA	General Chemistry Parameters	MBAS	Total Hardness	Molybdenum	Dissolved Metals [1]	Dissolved Metals [1]	Dissolved Metals [1]	Dissolved Metals [1]	Total Metals	Total Dissolved Solids	Organo-chlorine Pesticides	PCBs	VOCs	BTEX / MTBE	PAHs	SVOCs	Sulfide	Cyanide	Chlorinated Herbicides	TPH-G [2]	TPH-D [2]	TPH-FO [2]	TPH-Stoddard Solvent
					EPA 1625	various	E425.1			23	22	15	14	various		EPA 8080	EPA 8080	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015
First Quarter 2007																												
Building 900s Area	979GW116	DUP0306071B	No															1							1	1	1	
Building 900s Area	**979GW115**	**DUP0306071A**	**979GW115CL**															**1**							**1**	**1**	**1**	
Landfill 8	LF08GW04	DUP0307073A	No			1				1					1	1	1	1		1		1	1					
Building 1349	**1349MW01**	**DUP0301073A**	**1349MW01CL**			**1**				**1**					**1**	**1**		**1**		**1**					**1**	**1**	**1**	
Building 1349	1349MW100	DUP0301073B	No			1				1					1	1	1	1		1					1	1	1	
Landfill E	**DAEGW104**	**DUP0302071A**	**DAEGW104CL**			**1**	**1**	**1**	**1**	**1**					**1**	**1**	**1**	**1**		**1**					**1**	**1**	**1**	
Fill Site 1	LF01GW04	DUP0228071A	No			1					1				1								1					
Nike Missile Facility	**NKGW02**	**DUP0306071C**	**NKGW02CL**		**1**	**1**				**1**					**1**			**1**					**1**		**1**	**1**	**1**	
Battery Howe/Wagner	BHWGW04	DUP0306073A	No			1					1							1										
Bldg 1065	1065PZ3B	DUP0228072A	No			1						1			1				1			1			1	1	1	
Bldg 1065	1065PZ7A	DUP0227072B	No			1						1			1				1			1			1	1	1	
Bldg 1065	**1047MW101**	**DUP0301072A**	**1047MW101CL**			**1**						**1**			**1**			**1**				**1**			**1**			**1**
Fill Site 6	**LF6GW105**	**DUP0227072A**	**LF6GW105CL**			**1**					**1**				**1**							**1**						
Bldg 231/207	**231GW09**	**DUP0227072C**	**231GW09CL**			**1**					**1**				**1**							**1**						
Mini-CAP Areas	1221GW104	DUP0307073B	No			1					1																	
Second Quarter 2007																												
Building 1349	**1349MW100**	**DUP0606073A**	**1349MW100CL**			**1**				**1**					**1**	**1**		**1**		**1**					**1**	**1**	**1**	
Landfill 4	LF4GW103	DUP0605073A	No			1							1		1													
Battery Howe Wagner	**BHWGW01**	**DUP0606073B**	**BHWGW01CL**			**1**					**1**																	
Mini-CAPs	**FM14EX07GW102**	**DUP0606071A**	**FM14EX07GW102CL**																**1**	**1**					**1**	**1**	**1**	
Building 207/231	231GW13	DUP0605072B	No			1							1		1			1				1			1	1	1	
Building 207/231	**231GW29**	**DUP0606072A**	**231GW29CL**			**1**							**1**		**1**			**1**				**1**			**1**	**1**	**1**	
Building 207/231	231GW20	DUP0605072A	No			1							1		1			1				1			1	1	1	
Landfill 10	LF10SP01	DUP0511071A	No																						1	1	1	

Notes
1 - The table has been reformatted to one dissolved metals column. The number of dissolved metals proposed for analysis are denoted by parentheses. For example, Q (23) indicates the 23 metals list should be analyzed on a quarterly basis. The metals associated with each metals list are detailed below.
23 Metals List - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Th, V, and Zn.
22 Metals List - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Th, V, and Zn.
15 Metals List - Al, Sb, As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Pb, Ni and Zn.
14 Metals List - Al, As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Pb, Ni and Zn.
9 Metals List - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn.
8 Metals List - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn.
7 Metals List - As, Cr, Cd, Cu, Pb, Ni and Zn.
3 Metals List - Al, Fe, and Cr.
2 - TPH-G, TPH-D, TPH-FO: Total Petroleum Hydrocarbons as gasoline, diesel and fuel oil - EPA 3630A: Silica Gel Cleanup Step
C&T - Curtis & Tompkins, Ltd.
CAS - Columbia Analytical Services

Bold indicates samples that are duplicated at both the project and QC laboratories.

Table 8
Analytical Results for Equipment Rinsate Blanks
Presidio-wide Groundwater Monitoring Program
Presidio of San Francisco, California

Sample ID	Sample Date	BTEX	MTBE	All Other VOCs	Chloride	N as Nitrate	Sulfide	General Chemistry Parameters [1]	Dissolved Metals	NDMA	Total Dissolved Solids	TPH As Gasoline C7-C12	TPH As Diesel C12-C24	TPH As Fuel Oil C24-C36
	Analytical Method	SW8020	SW8020/ SW8260	SW8260M	E300.0	E300.0	E376.2	Various	SW6010/ SW6020	E1625	E160.1	SW8015M	SW8015M	SW8015M
	Unit		(µg/L)	--	mg/L	mg/L	mg/L	--	--	µg/L	mg/L	µg/L	µg/L	µg/L
First Quarter 2007														
FB0302071A	03/02/07	NA	NA	NA	NA	NA	NA	NA	NA	< 0.002	NA	NA	NA	NA
937GW103RB937GW102	03/05/07	NA	< 0.5	ND	NA	NA	NA	NA	NA	NA	NA	< 50	< 50	< 300
979GW109RB979GW110	03/05/07	NA	< 0.5	ND	NA	NA	NA	NA	NA	NA	NA	< 50	< 50	< 300
979GW113RB979GW114	03/06/07	NA	< 0.5	ND	NA	NA	NA	NA	NA	NA	NA	< 50	< 50	< 300
BHWGW05RBBHWGW01	03/06/07	NA	< 0.5	ND	< 0.2	0.21	NA	ND	ND	NA	NA	NA	NA	NA
1065MW10ARB1065MW10B	03/07/07	ND	5.1	NA	< 0.2	< 0.05	< 0.04	ND	ND	NA	16	< 50	< 50	< 300
1065PZ6BRB1065MW9A	03/07/07	ND	4.7	NA	0.4	< 0.05	< 0.04	ND	ND	NA	100	< 50	< 50	< 300
Second Quarter 2007														
BHWGW04RBHWGW100	06/06/07	NA	NA	NA	< 0.2	0.08	NA	ND	1,490 [3]	NA	NA	NA	NA	NA

Notes
1 - General Chemistry Parameters include total alkalinity, bicarbonate, chloride, fluoride, nitrate, nitrite, sulfate, and total dissolved solids.
2 - TPH as fuel oil uses a motor oil standard for carbon range (C_{24}-C_{36}).
3 - Dissolved metals number is a total for sodium (530 µg/L) and calcium (960 µg/L).
Table 11 identifies current and historical data qualifiers.

BTEX - benzene, toluene, ethylbenzene, and xylenes
MTBE - methyl tert-butyl ether
NA - Not analyzed
ND - Not detected above the laboratory reporting limit
TDS - total dissolved solids
TPH - total petroleum hydrocarbons
VOC - volatile organic compounds
mg/L - milligrams per liter
µg/L - micrograms per liter

Table 9
Analytical Results for Trip Blanks
Presidio-wide Groundwater Monitoring Program
Presidio of San Francisco, California

Trip Blank Identification	Sample Date	Chloroform	All Other VOCs
	Analytical Method	SW8260M	SW8260M
First Quarter 2007			
TB0227071A	02/27/07	< 0.5	ND
TB0228073A	02/28/07	5.3	ND
TB0301073A	03/01/07	< 0.5	ND
TB030207C12A	03/02/07	< 0.5	ND
TB0305072A	03/05/07	< 0.5	ND
TB0306072A	03/06/07	0.5 J+	ND
TB0306072ACL	03/06/07	< 0.5	ND
TB0307071A	03/07/07	< 0.5	ND
Second Quarter 2007			
TB0605071A	06/05/07	NA	ND
TB0605072A	06/05/07	NA	ND
TB0605073A	06/05/07	NA	ND
TB0606071A	06/05/07	NA	ND
TB0606071ACL	06/05/07	< 0.5	ND
TB0606073A	06/05/07	NA	ND
TB0607071A	06/05/07	NA	ND
TB0607072A	06/05/07	NA	ND
TB0607073A	06/05/07	NA	ND

Notes
All results reported in micrograms per liter.
Table 11 identifies data qualifiers.

ND - Not detected above the laboratory reporting limit
VOCs - Volatile organic compounds

Table 10
Analytical Results for Source Water Blanks
Presidio-wide Groundwater Monitoring Program
Presidio of San Francisco, California

Sample ID	Sample Date	All General Chemistry Parameters	Dissolved Metals			TDS	VOCs		NDMA	All OCPs and PCBs	All PAHs	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil [2] (Carbon Range C_{24}-C_{36})
			Calcium	Magnesium	All Other Metals [1]		Benzene	All Other VOCs						
	Analytical Method	Various	SW6010/ SW6020/	SW6010/ SW6020/	SW6010/ SW6020/	E160.1	SW8260B	SW8260B	E1625C	SW8081A/ SW8082	SW8310	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
Source Water Blanks		(mg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
First Quarter 2007														
DW030807B [3]	03/08/07	ND	< 500	< 500	ND	22	0.07 J J+	ND	0.0021	ND	ND	< 50	< 50	< 300
DW030807A [4]	03/08/07	ND	660	2,600	ND	22	< 0.5	ND	0.0113	ND	ND	< 50	< 50	< 300
Second Quarter 2007														
DW060707A [4]	06/07/07	ND	720	< 500	ND	44	< 0.5	ND	NA	ND	ND	< 50	< 50	< 300
DW060807B [3]	06/08/07	ND	< 500	< 500	15	--	< 0.5	ND	NA	ND	ND	< 50	< 50	< 300

Notes
1 - Metals include aluminum, arsenic, arsenite, arsenate, antimony, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, sodium, silver, selenium, thallium, vanadium, and zinc.
2 - TPH as fuel oil uses a motor oil standard for carbon range (C_{24}-C_{36}).
3 - Sample collected from source water tank on a field vehicle.
4 - Sample collected from the deionization system outlet at Blaine Tech Services, Inc. facility in San Jose, CA.
Table 11 identifies current and historical data qualifiers.

TDS - total dissolved solids
NA - Not analyzed
ND - Not detected above the laboratory reporting limit
OCPs - organochlorine pesticides
PAHs - polycyclic aromatic hydrocarbons
PCBs - polychlorinated biphenyls
SVOCs - semi-volatile organic compounds
TPH - total petroleum hydrocarbons
VOCs - volatile organic compounds
µg/L - micrograms per liter
mg/L - milligrams per liter

Table 11
Laboratory Qualifiers for Current and Historical Analytical Data
Presidio-wide Groundwater Monitoring Program
Presidio of San Francisco, California

The following data validation qualifiers were used for analytical data generated beginning in the Second Quarter 2001. Multiple data qualifiers can be applied to individual sample results. These qualifiers are recommended in the October 1999 document titled *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*:

#	The continuing calibration verification (CCV) drifted outside the limits although the average CCV drift was within the limits per method requirements.
U	The analyte was analyzed for, but was not detected above, the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample, refer to the specific analytical report for the rationale behind the qualification.
J+	The analyte was positively identified; the associated numerical value is biased high due to a high surrogate recovery and should be considered an approximate concentration of the analyte in the sample.
J-	The analyte was positively identified; the associated numerical value is biased low due to a low surrogate recovery and should be considered an approximate concentration of the analyte in the sample.
Jb	The analyte was identified below the laboratory reporting limit but above the laboratory method detection limit and QAPP-specified reporting limit.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

The current reported analytical data also includes the following laboratory supplied validation comments:

A-01	No H_2SO_4 preserved sample available for 28 day hold time.
B	Analyte is found in the associated blank as well as in the sample.
C	Presence confirmed, but confirmation concentration differed by more than a factor of two.
D	The reported result is from a dilution
g	Compound was found in the blank and sample.
H	Heavier hydrocarbons contributed to the quantitation.
HT-04	This sample was analyzed beyond the EPA recommended holding time. The results may still be useful for their intended purpose.

Table 11
Laboratory Qualifiers for Current and Historical Analytical Data
Presidio-wide Groundwater Monitoring Program
Presidio of San Francisco, California

HT-RA	This sample was originally analyzed within the EPA recommended hold time. Re-analysis for confirmation or dilution was performed past the recommended hold time. The results may still be used for their intended purpose.
i	The method reporting limit/method detection limit has been elevated due to a matrix interference.
ndp	Hydrocarbon reported does not match the pattern of the diesel standard.
L	Lighter hydrocarbons contributed to the quantitation.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
QB01	The method blank contains this analyte at a concentration above the reporting limit; however, the concentration is less than 5% of the sample result, which is negligible according to method criteria.
Y	Sample exhibits a fuel pattern, which does not resemble standard.
Z	Sample exhibits unknown single peak or peaks.

Analytical data reported prior to the second quarter of 2001 have used the same data qualifiers described above, but have also used the validation qualifiers and comments Q, Rd, DR, D, B, G, P, d, j, k, z. Descriptions of these previously used validation qualifiers and comments are provided in the quarterly monitoring report corresponding to the sampling date shown in the analytical summary tables.

The following is a table of data validation qualifiers and comments used by Montgomery Watson for their previous Presidio groundwater monitoring work.

Data Validation Qualifiers:

J – Qualified as estimated U – Qualified as not detected R – Qualified as rejected

Data Validation Comments:

1. Qualified due to detected concentration in associated method blank sample.
2. Qualified due to detected concentration in associated trip blank sample.
3. Qualified due to detected concentration in associated filter blank sample.
4. Qualified due to detected concentration in associated equipment rinsate blank sample.
5. Qualified as positively biased due to surrogate recoveries above the established acceptance limits.
6. Qualified as negatively biased due to surrogate recoveries below the established acceptance limits.
7. Qualified due to surrogate recoveries outside the established acceptance limits; bias cannot be determined.
8. Qualified as positively biased due to MS/MSD recoveries above the established acceptance limits.
9. Qualified as negatively biased due to MS/MSD recoveries below the established acceptance limits.
10. Qualified due to MS/MSD recoveries outside the established acceptance limits; bias cannot be determined.
11. Qualified as positively biased due to LCS recoveries above the established acceptance limits.

Table 11
Laboratory Qualifiers for Current and Historical Analytical Data
Presidio-wide Groundwater Monitoring Program
Presidio of San Francisco, California

12. Qualified as negatively biased due to LCS recoveries below the established acceptance limits.
13. Qualified due to LCS recoveries outside the established acceptance limits; bias cannot be determined.
14. Qualified as positively biased due to calibration nonconformances.
15. Qualified as negatively biased due to calibration nonconformances.
16. Qualified due to calibration nonconformances; bias cannot be determined.
17. Qualified as negatively biased due to holding time nonconformances.
18. Qualified as negatively biased due to sample receipt nonconformances.
19. Qualified as positively biased due to sample receipt nonconformances.
20. Qualified due to sample receipt nonconformances; bias cannot be determined.
21. Qualified as positively biased due to other criteria.
22. Qualified as negatively biased due to other criteria.
23. Qualified due to other criteria; bias cannot be determined.
24. Qualified due to detected concentration in associated source water sample.
25. Qualified due to chromatographic pattern of the sample does not match the calibration pattern.
26. Reported value determined by method of standard addition; bias cannot be determined.
27. Qualified as negatively biased due to post-digest spike recovery between 40% and 85%.
28. Estimated value; result is detected between the method detection limit (MDL) and the reporting limit.
29. Qualified due to holding times exceeded.
30. Qualified as estimated; compound is a common laboratory contaminant.
31. Reported value determined by GC/MS library search; compound is tentatively identified and quantitation is estimated.
32. Qualified data explained further in the report associated with the sampling event.
33. Qualified to field duplicate RPD outside of established limits; bias cannot be determined.
34. Final purge readings are not representative of site conditions. The reported readings are taken from earlier entries associated with that purge log.
35. Questionable field parameter results; readings do not appear to be representative of site conditions.

Table 12
Analytical Results for Purge and Decontamination Water
Presidio-wide Groundwater Monitoring Program
Presidio of San Francisco, California

Sample Name	Sample Date	Metals									Cyanide	Dissolved Sulfide	Total Oil & Grease	Phenolic Compounds	pH
		Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Silver	Zinc					
	Analytical Method	SW6020	SW6020	SW6020	SW6020	SW6010	SW7470	SW6020	SW6020	SW6020	SW9012	E376.2	E1664A	E420.1	SW9040B
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	--
Discharge Criteria		**4,000**	**500**	**5,000**	**4,000**	**1,500**	**50**	**2,000**	**600**	**7,000**	**1,000**	**500**	**300,000**	**23,000**	**6.0 - 9.5**
First Quarter 2007															
WT030807	03/08/07	< 5	< 1	< 10	6	< 3	< 0.2	20	< 1	64	< 0.01	< 0.04	< 4.75	< 0.05	7.7
Second Quarter 2007															
WT060807	06/08/07	9.8	< 1	39	30	18	< 0.2	66	< 1	75	0.03	< 0.04	< 4.7	< 0.05	--
WT061307	06/13/07	--	--	--	--	--	--	--	--	--	--	--	--	--	7.7

Note
Table 11 identifies current and historical data qualifiers.
µg/L - micrograms per liter
mg/L - milligrams per liter

FIGURES

Golden Gate Bridge

San Francisco Bay

PACIFIC OCEAN

COASTAL BLUFFS GROUNDWATER BASIN

MARINA GROUNDWATER BASIN

CRISSY FIELD GROUNDWATER AREA

WEST VALLEY GROUNDWATER AREA

NORTHEASTERN GROUNDWATER AREA

LOBOS CREEK GROUNDWATER BASIN

LOBOS CREEK GROUNDWATER AREA

MARINA GROUNDWATER BASIN

Baker Beach Disturbed Areas 1 & 2

Battery Howe / Wagner

Mini CAP Area 1

Building 900s Area

Commissary/PX Area

Building 231/207 Area

Building 1065/1027 Area

Fill Site 6

Building 10

Building 1349

Baker Beach Disturbed Area 3

Fill Site 5

Landfill 4

Mini CAP Area 2

Landfill E

Mini CAP Area 2

Nike Missile Facility

Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, and Upgradient Wells

Landfill 8

Landfill 10

Mountain Lake

N

1000 0 1000 Feet

LEGEND

- Presidio Base Map
- Presidio Boundary
- Topographic Contours (Contour Interval 10 feet)

GROUNDWATER BASIN AREAS

- Coastal Bluffs Groundwater Basin
- Crissy Field Groundwater Area
- Lobos Creek Groundwater Area
- Lobos Creek Groundwater Basin
- Marina Groundwater Basin
- Northeastern Groundwater Area
- West Valley Groundwater Area

Notes:
Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datum (topography): North American Vertical Darum, NAVD88

PRESIDIO MAP WITH SAMPLING AREAS AND GROUNDWATER BASINS

Treadwell&Rollo

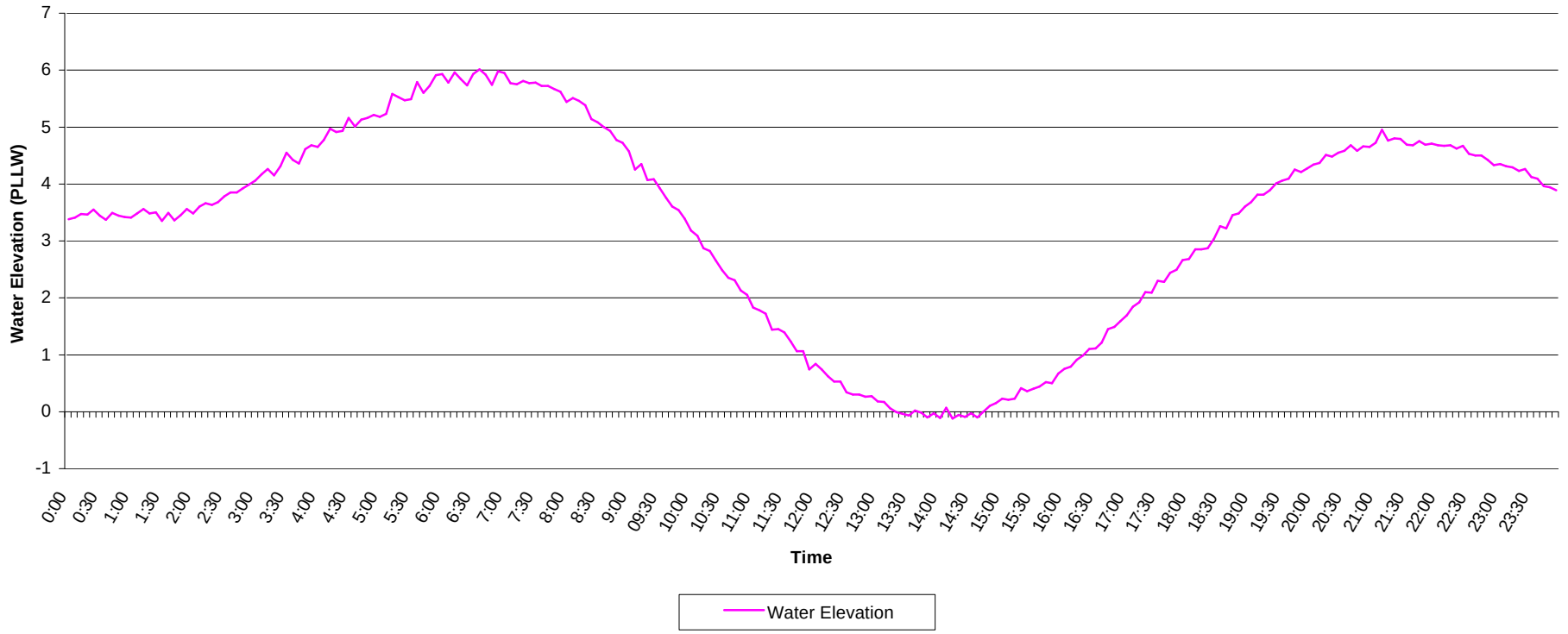
THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315

October 2007

FIGURE 1

Treadwell & Rollo 2893_04\FIG1_GW_BASINS.APR 10/2007



Notes:

Actual water level data were taken from:

http://tidesandcurrents.noaa.gov/station_retrieve.shtml?type=Historic+Tide+Data

Station Number '9414290' and converted to PLLW.

Water level magnitudes were collected by NOAA every six minutes.

NOAA - National Oceanographic and Atmospheric Administration

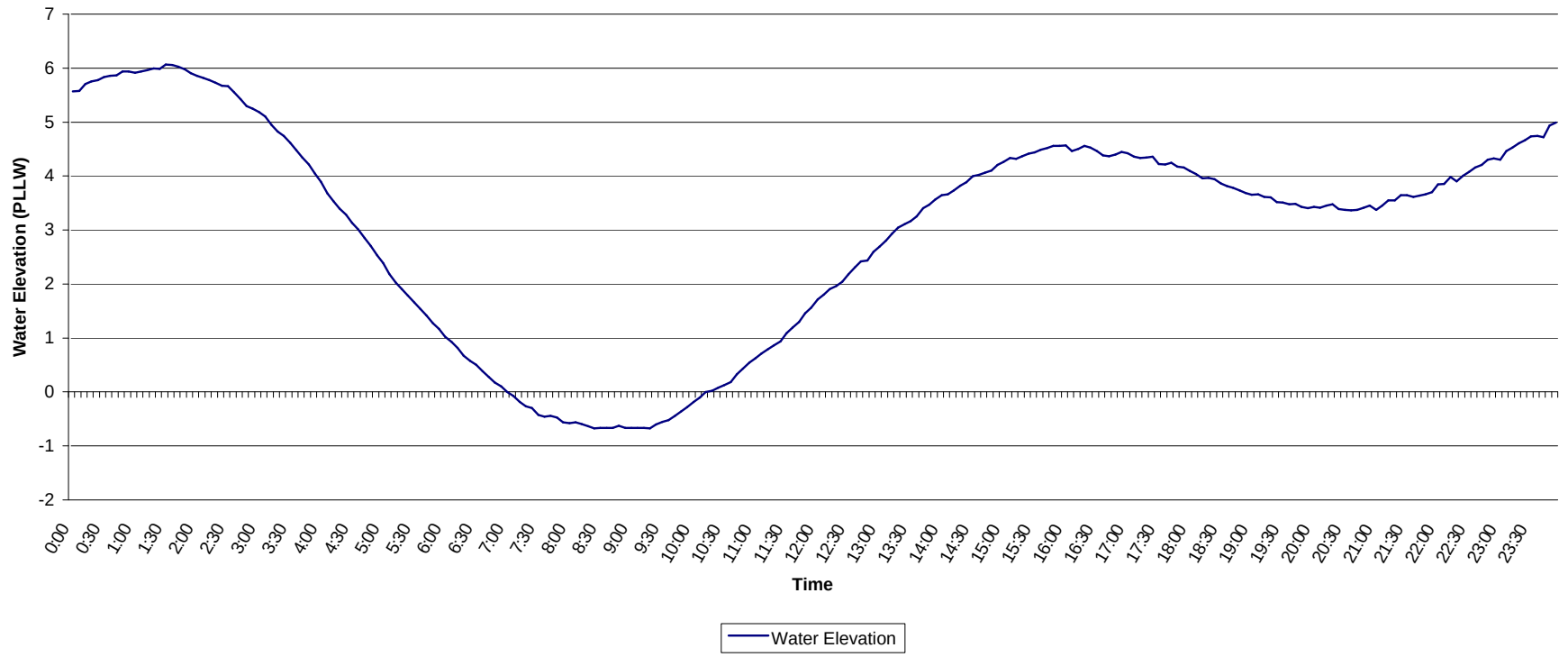
PLLW - Presidio Lower Low Water datum

TIDAL ELEVATIONS AT THE GOLDEN GATE TIDAL STATION ON 26 FEBRUARY 2007

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300

October 2007

FIGURE 2A



Notes:

Actual water level data were taken from:

http://tidesandcurrents.noaa.gov/station_retrieve.shtml?type=Historic+Tide+Data

Station Number '9414290' and converted to PLLW.

Water level magnitudes were collected by NOAA every six minutes.

NOAA - National Oceanographic and Atmospheric Administration

PLLW - Presidio Lower Low Water datum

TIDAL ELEVATIONS AT THE GOLDEN GATE TIDAL STATION ON 4 June 2007

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300

October 2007

FIGURE 2B

APPENDIX A
Sampling Area Summaries

BUILDING 900s AREA
APPENDIX SECTION A-1
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2007
Presidio of San Francisco, California

1.0 INTRODUCTION AND BACKGROUND

The Building 900s Area is located in the northern portion of the Presidio, adjacent to Crissy Field at the boundary of the San Francisco Bay, just southeast of the Golden Gate Bridge (Figure 1). The site is approximately 15 acres, with surface elevations ranging from approximately 10 to 15 feet above the Presidio lower low water (PLLW) datum (Montgomery Watson, 1996c).

Buildings in the Building 900s Area were associated with aviation maintenance activities for Crissy Field, which was built in 1919, and a formerly active Coast Guard Station (Figure A-1-1). Building uses shifted from airfield maintenance to vehicle maintenance in 1936. Building uses of concern include: a former motor pool repair shop, transformer storage, a solvent dip tank, bulk oil and waste oil storage, automotive bodywork, painting, battery storage, a former fuel pump house, fuel storage, steam cleaning, an underground oil-water separator, aircraft maintenance, a boiler house, equipment storage, vehicle maintenance, waste oil/solvent storage, a fueling area, and mine storage (Montgomery Watson, 1997a). Documented potential sources of environmental concern are surface spills associated with vehicle maintenance and waste oil storage and subsurface releases from underground storage tanks (USTs) and associated piping (Dames & Moore, 1997).

Groundwater samples collected from site wells have previously been analyzed for total petroleum hydrocarbons (TPH) as gasoline (TPHg), TPH as diesel (TPHd), TPH as fuel oil (TPHfo), volatile organic compounds (VOCs), and dissolved metals. Dissolved metals analysis has not been a part of the Building 900s Area monitoring program since 1997. Summaries of dissolved oxygen, TPH, and VOC results can be found in Tables A-1-1 through A-1-3.

The Coast Guard Station is located adjacent to and southeast of the site and has three associated monitoring wells, CGGW01, CGGW02, and CGGW03 (Figure A-1-1). The Coast Guard station is no longer included in the Presidio-wide Groundwater Monitoring Program. Prior groundwater sampling of these wells did not detect any concentrations of TPHg, TPHd, TPHfo or metals above laboratory detection limits and sampling was subsequently discontinued in 1996. Coast Guard Station groundwater analytical results for TPH and lead are summarized in Table A-17-1 in Appendix A of the *Draft Quarterly Groundwater Monitoring Annual Summary Report, Fourth Quarter 2001* (Treadwell & Rollo, 2002d).

A reduction in sampling frequency for all Building 900s Area wells to annual was previously approved by the stakeholders and sampling was only conducted at the site during the First Quarter 2007.

2.0 SITE DESCRIPTION AND GEOLOGY

Unconsolidated deposits encountered during previous site investigations in the Building 900s Area include three units: fill material, estuarine sand deposits with local interbedded fine-grained estuarine deposits, and Franciscan Complex bedrock.

Prior to remediation activities, the Building 900s Area consisted mostly of artificial fill with isolated areas of debris fill. The artificial fill was a mixture of sand, silt, and clay composed primarily of dredged sand from San Francisco Bay (used to fill historic wetlands beneath Crissy Field) and serpentinite and/or chert gravel used as road base. The debris fill was composed of silt and sand mixed with construction debris, including concrete, wood, glass, brick fragments, and wire (Dames & Moore, 1997). Fill materials range in thickness from 1.5 to 7 feet.

The fill materials are underlain by native estuarine sands interbedded with fine-grained estuarine deposits. The sand thickness extends up to approximately 50 feet, and the interbedded, fine-grained sediments range in thickness from 1 inch to 2.5 feet. Shell fragments and layers of organic material (including peat) up to 0.9 feet thick are locally present. At the location of former well 937GW01, adjacent to the serpentinite cliff that borders the site to the west and southwest, silty clay with sand and gravel (weathered serpentinite) extends to at least 35 feet below ground surface (bgs).

The laterally continuous, shallow, fine-grained estuarine deposits (also known as Bay Mud), which separate shallow water-bearing sand units to the southeast in the Building 637 Area (described in Appendix A, of the *Semi-Annual Groundwater Monitoring Report, First and Second Quarters 2004,* Treadwell & Rollo, 2004c), are not present beneath the Building 900s Area. Interbedded, fine-grained sediments are discontinuous and mostly occur locally north of Building 937.

The estuarine sediments are underlain by Franciscan Complex bedrock, predominantly serpentinite. The massive serpentinite outcrop exposed along the western portion of the Building 900s Area forms a cliff approximately 60 feet above ground surface (Figure A-1-1). At the base of the cliff, the serpentinite bedrock dips below ground surface and the depth to bedrock generally increases from the cliff to San Francisco Bay, with the maximum encountered depth at approximately 50 feet bgs.

A single, heterogeneous, unconfined (water table) coastal aquifer is present beneath the Building 900s Area. The water table beneath the Building 900s Area has, in the past, typically ranged from 6 to 9 feet bgs. The thickness of the aquifer increases as the depth to bedrock increases from the serpentinite cliff on the west side of the site toward San Francisco Bay (Figure A-1-1).

The Building 900s Area monitoring wells are generally screened in estuarine sand deposits of the aquifer, with some wells screened partially in fine-grained lenses or in weathered serpentinite bedrock. Because the site wells are screened in a single water table aquifer without discrete water-bearing zones, the wells are separated into three groups based on relative screened elevation rather than water-bearing zones. These screened intervals are referred to as the shallow, intermediate, and deep.

Groundwater in the Crissy Field Groundwater Area (Figure 1) generally flows north to northeast toward San Francisco Bay, with locally divergent flow directions (Montgomery Watson, 1999a). In the northwestern portion of the Building 900s Area, the historical coastal features influence the hydrogeology in the shallow interval by diverting groundwater flow (and contaminant migration) northwest and north along the historic lagoonal water channel (Montgomery Watson, 1997b), rather than northeast directly toward the bay. All three intervals have similar groundwater elevations.

3.0 REMEDIAL ACTION PLAN

In April 1998, the Department of Toxic Substances Control (DTSC) approved the Crissy Field Remedial Action Plan (RAP). The Crissy Field RAP addressed multiple Crissy Field area contamination sites, including the Building 900s Area. For the Building 900s Area, the Crissy Field RAP selected source soil removal and subsequent confirmation groundwater monitoring to ensure that contaminant concentrations do not exceed applicable standards. Approximately 39,000 tons of contaminated soil and fill were excavated and removed (Army and DTSC, 1998). The Crissy Field RAP requires that groundwater monitoring be conducted for a minimum of five years following construction completion, and that, should contamination concentrations exceed applicable standards for two consecutive quarters, the data be reviewed with the stakeholders and an action plan developed and implemented to address the groundwater contamination. Seventeen additional monitoring wells were installed between 19 and 29 June 2001 to expand the monitoring well network for this area (Figure A-1-1). The Crissy Field RAP identifies the following groundwater cleanup levels for this area:

Cis-1,2-dichloroethene (cis-1,2-DCE)	140,000 micrograms per Liter (µg/L)
Trans-1,2 dichloroethene (trans-1,2-DCE)	140,000 µg/L
Trichloroethene (TCE)	81 µg/L
Vinyl chloride	525 µg/L

In addition, five-year reviews of groundwater use in this area are required to ensure that no human use is occurring without appropriate treatment. The first five year review report for this area is scheduled to be completed in 2007. These reviews are to continue until the groundwater meets drinking water standards or is no longer classified as a “potential drinking water source.” In May 2002, monitoring well 937GW108 was installed at the Building 937 Area as requested by the DTSC, and on 14 May 2002, dry well 979GW111 was replaced with monitoring well 979GW111R. This completed the monitoring well network required by the Crissy Field RAP.

4.0 GROUNDWATER MONITORING

The Building 900s Area has 28 associated monitoring wells (Figure A-1-1). Work at the site is currently being performed in accordance with the *Crissy Field RAP* and the *Field Sampling Plan* (FSP) (Treadwell & Rollo, 2001a). Groundwater elevations were collected from all Building 900s Area wells and the annual groundwater sampling was conducted in the First Quarter 2007. No monitoring wells in the Building 900s Area were scheduled to be sampled during the Second Quarter 2007, in accordance with Table 1B.

4.1 Groundwater-Level Measurements and Interpretation

Building 900s Area monitoring wells are screened in three different intervals of the single aquifer. These screened intervals are referred to as shallow, intermediate, and deep zones and are differentiated by relative screen depths. A complete list of site wells, their associated water-bearing zones, and historical groundwater elevations, are presented in Table A-1-4. All groundwater elevation measurements for the First Quarter 2007 were manually collected on 26 February 2007. Groundwater elevations were not collected from Building 900s Area monitoring wells during the Second Quarter 2007. Water level meters were calibrated on 26 February and calibration logs can be found in Appendix B. Groundwater elevation field forms can be found in Appendix C.

During the First Quarter 2007, all site wells were gauged between 2:02 PM and 2:52 PM on 26 February 2007. Low tide was predicted to be at 2:02 PM on 26 February 2007. Observed low tide on 26 February 2007 occurred at 2:00 PM, with a magnitude of 0.09 feet above PLLW.

Tidal predictions and observations are taken from the National Oceanic and Atmospheric Administration's (NOAA) Center for Operational Oceanographic Products and Services website. Predicted and observed tidal times and magnitudes during the First Quarter 2007 are presented in Table 2A.

4.1.1 Shallow Groundwater

During the First Quarter 2007, shallow groundwater elevations at the Building 900s Area ranged from 4.14 to 7.89 feet above PLLW in monitoring wells 979GW113 and 937GW12, respectively. The majority of groundwater elevations measured during the First Quarter 2007 were within historical range (Table A-1-4). The First Quarter 2007 shallow groundwater flow direction in the northern portion of the Building 900s Area was generally northwesterly along the historic lagoonal channel while the groundwater flow direction in the southern portion of the site was northeasterly towards San Francisco Bay (Figure A-1-2). The average groundwater gradients for the shallow monitoring wells in the northern and southern portions of the site were estimated to be approximately 0.006 and 0.013 feet per foot, respectively.

Shallow groundwater flow directions and gradients are generally consistent with those previously reported for the Building 900s Area.

4.1.2 Intermediate Groundwater

During the First Quarter 2007, intermediate groundwater elevations at the Building 900s Area ranged from 3.54 to 6.10 feet above PLLW in monitoring wells 979GW110 and 937GW105, respectively. The First Quarter 2007 intermediate groundwater flow direction was northeasterly towards San Francisco Bay in the northern portion of the site and was northerly in the southern portion of the site (Figure A-1-3). The average groundwater gradients for the shallow monitoring wells in the northern and southern portions of the site were estimated to be approximately 0.002 and 0.012 feet per foot, respectively.

Intermediate groundwater flow directions and gradients are generally consistent with those previously reported for the Building 900s Area.

4.1.3 Deep Groundwater

During the First Quarter 2007, deep groundwater elevations at the Building 900s Area ranged from 3.19 to 6.38 feet above PLLW in monitoring wells 979GW117 and 937GW38, respectively. The deep groundwater flow direction was northerly (Figure A-1-4), with an average groundwater gradient of approximately 0.006 feet per foot.

Deep groundwater flow directions and gradients are generally consistent with those previously reported at the Building 900s Area.

4.1.4 Vertical Gradients

Building 900s Area vertical gradients are presented in Table A-1-5. Vertical groundwater gradients were calculated for three well clusters each having one shallow, intermediate, and deep well: 900WC-1, 900WC-2, and 900WC-3. Well clusters 900WC-1 and 900WC-2 are located northeast of Building 937 (Figure A-1-1). Well cluster 900WC-3 is located in the northern portion of the site. A description of which wells are contained in each well cluster and a description of how the vertical gradients were calculated can be found in Table A-1-5.

During First Quarter 2007 vertical gradients were observed as follows:

- A downward (positive) vertical gradient was observed between the shallow/intermediate interval within well clusters 900WC-1 and 900WC-3, the shallow/deep interval within well clusters 900WC-1 and 900WC-2, and the intermediate/deep interval within well cluster 900WC-2.
- An upward (negative) vertical gradient was observed between the shallow/intermediate interval within well cluster 900WC-2, the shallow/deep interval

within well cluster 900WC-3, and the intermediate/deep interval within well clusters 900WC-1 and 900WC-3.

The vertical gradients observed during the First Quarter 2007 are generally consistent with previous findings. The vertical gradients between the shallow/intermediate and shallow/deep intervals are generally downward with the intermediate/deep generally upward.

4.2 Monitoring Well Purging and Sampling

All 28 of the Building 900s Area monitoring wells that were proposed for sampling during the First Quarter 2007 were purged and sampled between 2 March and 8 March 2007, in accordance with methods shown in Table 1A and procedures described in the FSP (Treadwell & Rollo, 2001a). No monitoring wells in the Building 900s Area were scheduled to be sampled during the Second Quarter 2007, in accordance with Table 1B.

Purge equipment and volumes, and sampling equipment for each monitoring well are described in the purge records located at the conclusion of this section. Purge water was stored for future disposal in one of two 2,800-gallon above-ground polyethylene storage tanks located at the Central Magazine.

5.0 GROUNDWATER ANALYTICAL RESULTS

Groundwater samples collected from the Building 900s Area monitoring wells during the First Quarter 2007 sampling event were analyzed for VOCs, TPHg, TPHd, and TPHfo. Additionally, dissolved oxygen was measured in monitoring wells prior to sampling. The TPHfo standard currently being used is a TPH motor oil standard, as defined by the Presidio QAPP, with a carbon range of C_{24} to C_{36}. Section 5.4.3.1 in the main text discusses the data compatibility issues associated with TPH analyses.

5.1 Dissolved Oxygen

Dissolved oxygen concentrations are summarized in Table A-1-1. Dissolved oxygen concentrations ranged from 0.03 to 3.80 mg/L within monitoring wells 937GW104 and 937GW103, respectively.

New low oxygen concentrations of 0.03 and 0.09 mg/L were measured within monitoring wells 937GW104 and 979GW109, respectively, during the First Quarter 2007. Dissolved oxygen was mistakenly not measured in monitoring well 950GW108 during the First Quarter 2007.

Remaining concentrations of dissolved oxygen measured during the First Quarter 2007 were generally within the historical range previously measured within Building 900s Area wells.

Dissolved oxygen concentrations were measured using either a down-hole or in-line dissolved oxygen meter during the First Quarter 2007. A discussion of dissolved oxygen measurement procedures and data comparability can be found in Section 5.4.1 of the main report.

5.2 VOCs Results

During the First Quarter 2007, VOCs were detected in shallow, intermediate, and deep groundwater (Figures A-1-5 through A-1-7). The Crissy Field RAP specifies cleanup levels for cis-1,2-DCE, trans-1,2-DCE, TCE, and vinyl chloride. At least one of these VOC compounds was detected in samples collected from 16 of the 28 monitoring wells sampled during the First Quarter 2007. No Crissy Field RAP groundwater cleanup levels were exceeded during the First Quarter 2007 (Table A-1-2). Significant detections outside of historical bounds are listed below.

- Cis- and trans-1,2-DCE were detected at the lowest concentrations within the last 3 years in monitoring well 937GW102.
- Cis-1,2-DCE and vinyl chloride were detected for the first time within monitoring well 937GW104 at concentrations of 6.7 µg/L and 2.0 µg/L, respectively.
- Cis-1,2-DCE and vinyl chloride were detected at new high concentrations of 12 and 1.4 µg/L, respectively, within monitoring well 979GW110.
- TCE was detected for the first time within monitoring well 979GW114 at a concentration of 2.0 µg/L.
- Benzene was detected for the first time within monitoring well 937GW106 at a concentration of 0.2 µg/L, which is lower than the 0.5 µg/L detection limit.

VOC concentrations at the Building 900s Area have remained relatively stable at low concentrations, within the monitoring wells sampled prior to the First Quarter 2002. Concentrations of VOCs in the monitoring wells that were added to the monitoring program beginning in the First Quarter 2002 have been more varied, but have remained well below RAP-specified cleanup levels.

In general, during natural biodegradation, TCE is dehalogenated and converted into two isomers, cis- and trans-1,2-DCE. The processes that convert TCE to either cis- or trans-1,2-DCE are highly variable and depend on specific field conditions. Generally, during natural biodegradation, the cis-1,2-DCE isomer is found at higher concentrations than trans-1,2-DCE. Monitoring wells with detections of cis- or trans-1,2-DCE during the First Quarter 2007 had higher concentrations of cis-1,2-DCE than trans-1,2-DCE except monitoring wells 937GW101 (shallow) and 979GW111R (intermediate). Cis- and trans-1,2-DCE can be further dehalogenated to form vinyl chloride. In the majority of samples that contained cis- and trans-1,2-DCE, vinyl chloride was present at lower concentrations. The relative concentration ratios of

cis- and trans-1,2-DCE, and vinyl chloride in the samples continue to indicate that natural biodegradation processes are occurring.

5.3 TPH Results

TPH were only detected within monitoring well 937GW108 during the First Quarter 2007 (Table A-1-3).

TPHg and TPHd were detected within 937GW108 at concentrations of 72 and 65 µg/L, respectively. The detected concentration of TPHg within 937GW108 during this quarter is the lowest to date and the TPHd detection is within the range of previously detected concentrations in this well. The First Quarter 2007 TPHg and TPHd detections in 937GW108 are not considered significant.

TPHg and TPHd are not listed in the Crissy Field RAP as contaminants of concern and do not have specified cleanup levels relative to the Building 900s Area.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Groundwater elevations, gradients, and flow directions during First Quarter 2007 are consistent with historical values and interpretations. VOC concentrations detected during the First Quarter 2007 did not exceed their respective RAP-specified cleanup levels. The majority of VOC concentrations detected during the First Quarter 2007 were within the range of previously detected concentrations. The only monitoring well with significantly higher VOC concentrations was intermediate well 979GW110, which had a higher concentration of cis-1,2-DCE detected than in any previous monitoring event. Cis-1,2-DCE and vinyl chloride were detected for the first time within monitoring well 937GW104 and TCE was detected for the first time within monitoring well 937GW114. All VOC detections were significantly less than RAP-specified cleanup levels.

The relative concentration ratios of TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride within Building 900s groundwater samples continue to indicate that natural biodegradation processes are occurring. The ratios of TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride will continue to be monitored in future events.

TPHg and TPHd were only detected in the shallow monitoring well 937GW108 during the First Quarter 2007. The detected TPH concentrations within 937GW108 were within or below the range of historical concentrations.

The current sampling program at the Building 900s Area will be reviewed as part of a five year review report for this area, which is scheduled to be completed in 2007. Changes to the monitoring program at the Building 900s Area will be proposed in the five year review report.

Table A-1-1
Summary of Dissolved Oxygen Measurements
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	Dissolved Oxygen
	Analytical Method	Field
		(mg/L)
937GW06 (shallow)	03/05/07	2.90
	03/14/06	0.98
	03/17/05	0.4
	03/16/04	0.1
	12/05/03	1.1
	08/18/03	0.7
	06/03/03	0.5
	03/20/03	0.6
	12/05/02	1.3
	08/28/02	1.4
	05/31/02	1.4
	03/05/02	1.1
	11/27/01	1.2
	09/06/01	NM
	05/16/01	2.5
	06/20/00	0.03
	01/10/00	0.7
	09/01/99	0.52
	06/01/99	0.3
	03/15/99	0.54
	12/14/98	0.39
	09/03/98	0.81
	05/27/98	0.55
	02/24/98	0.58
	11/25/97	0.26
	08/26/97	0.67
	06/04/97	0.25
	03/10/97	0.13
937GW07 (shallow)	03/08/07	0.29
	03/14/06	0.23
	03/23/05	1.1
	03/18/04	0.93
	12/10/03	0.8
	08/18/03	0.7
	06/06/03	0.5
	03/20/03	1.4
	12/05/02	1.8
	09/06/02	0.4
	06/04/02	1
	03/06/02	1
	12/04/01	2.01
	09/07/01	2.6
	05/18/01	2.5
	06/20/00	0.08
	01/20/00	9.47
	03/09/99	3.27
	12/07/98	2.79

Table A-1-1
Summary of Dissolved Oxygen Measurements
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	Dissolved Oxygen
	Analytical Method	Field
		(mg/L)
937GW07 (shallow)	09/02/98	0.36
	05/19/98	0.69
	02/25/98	6.8 (J35)
	12/01/97	2.27
	08/27/97	0.55
	06/16/97	0.4
	03/18/97	0.4
937GW12 (shallow)	03/05/07	3.70
	03/13/06	5.17
	03/16/05	0.9
	03/12/04	0.7
	12/03/03	0.8
	08/18/03	0.7
	06/03/03	0.7
	03/20/03	0.5
	12/05/02	0.5
	08/28/02	1
	05/31/02	1.2
	03/05/02	1.2
	11/27/01	2.09
	09/06/01	0.7
	05/15/01	3.2
	06/19/00	0.11
	01/11/00	0.98
	09/01/99	1.01
	06/02/99	1.13
	03/10/99	0.79
	12/07/98	0.72
	09/01/98	0.92
	05/26/98	0.76
	02/25/98	1.32
	01/07/98	1.58
	12/01/97	0.17
	08/27/97	0.32
	06/10/97	0.72
	03/13/97	0.12
937GW15 (shallow)	03/08/07	1.31
	03/15/06	0.4
	03/23/05	1.4
	03/18/04	0.16
	12/10/03	1.5
	08/18/03	0.6
	06/06/03	2.9
	03/20/03	0.8
	12/05/02	1.2
	09/06/02	0.4
	06/04/02	1.8

Table A-1-1
Summary of Dissolved Oxygen Measurements
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	Dissolved Oxygen
	Analytical Method	Field
		(mg/L)
937GW15 (shallow)	03/06/02	1.6
	12/04/01	1.3
	09/07/01	3.4
	05/17/01	4.5
	06/20/00	0.39
	01/20/00	3.37
	09/02/99	3.5
	06/02/99	6.3 (J35)
	03/10/99	0.91
	12/07/98	0.42
	09/01/98	1.21
	05/19/98	1
	02/16/98	4.07
	11/20/97	0.16
	08/21/97	0.13
	06/02/97	0.19
	03/04/97	2.2
937GW32R (deep)	03/02/07	0.42
	03/13/06	0.73
	03/18/05	0.2
	03/12/04	0.2
	12/09/03	0.7
	08/18/03	0.6
	06/03/03	0.4
	03/20/03	0.4
	12/05/02	0.7
	08/29/02	0.8
	06/04/02	1
	03/05/02	0.2
	11/27/01	NM
	09/06/01	0.76
	05/16/01	3.3
	06/16/00	0.05
	01/13/00	0.4
	06/01/99	0.25
	03/15/99	0.26
	12/14/98	0.23
	09/03/98	0.29
	05/27/98	0.4
	02/24/98	0.35
	11/25/97	0.16
	08/26/97	0.23
	06/04/97	0.1
	03/04/97	0.06

Table A-1-1
Summary of Dissolved Oxygen Measurements
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	Dissolved Oxygen
	Analytical Method	Field
		(mg/L)
937GW35 (shallow)	03/02/07	0.42
	03/13/06	0.51
	03/18/05	0.7
	03/16/04	0.5
	12/09/03	1.8
	08/20/03	0.5
	06/03/03	1
	03/20/03	1
	12/05/02	NM
	08/29/02	1.2
	06/04/02	0.9
	03/05/02	1.5
	11/27/01	2.66
	09/06/01	4.9
	05/16/01	3.2
	06/16/00	0.22
	09/01/99	1.34
	06/01/99	1.34
	03/09/99	1.47
	12/02/98	0.6
	09/03/98	0.93
	05/18/98	1.94
	02/11/98	2
	11/17/97	0.49
	08/18/97	0.87
	05/27/97	1.36
	03/03/97	0.78
937GW37 (shallow)	03/02/07	0.70
	03/13/06	0.34
	03/16/05	0.7
	03/12/04	0.1
	12/03/03	0.8
	08/15/03	0.6
	06/03/03	0.8
	03/19/03	0.6
	12/05/02	1
	08/28/02	1.3
	05/31/02	0.9
	03/05/02	1.4
	11/27/01	2.99
	09/06/01	0.91
	05/15/01	1.3
	06/19/00	0.08
	01/13/00	0.67
	09/02/99	0.67
	06/02/99	4.4
	03/10/99	2.57
	12/07/98	0.5
	09/02/98	0.47
	05/26/98	0.89
	02/26/98	4.46

Table A-1-1
Summary of Dissolved Oxygen Measurements
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	Dissolved Oxygen
	Analytical Method	Field
		(mg/L)
937GW37 (shallow)	12/02/97	0.52
	08/28/97	0
	06/11/97	0.91
	03/17/97	0.1
937GW38 (deep)	03/05/07	1.50
	03/13/06	0.52
	03/16/05	0.4
	03/12/04	0.2
	12/03/03	0.8
	08/18/03	0.9
	06/03/03	0.4
	03/19/03	0.3
	12/05/02	1
	08/28/02	0.8
	05/31/02	0.9
	03/05/02	1.2
	11/27/01	2.7
	09/06/01	0.56
	05/15/01	1.7
	06/19/00	0.1
	01/11/00	0.3
	09/02/99	0.46
	06/02/99	0.11
	03/10/99	0.12
	12/03/98	0.13
	09/01/98	0.87
	05/26/98	0.98
	02/26/98	0.82
	12/02/97	0.19
	08/27/97	0.22
	06/10/97	0
	03/13/97	0.05
937GW39 (deep)	03/05/07	1.00
	03/13/06	0.42
	03/17/05	0.6
	03/12/04	0.3
	12/05/03	1
	08/18/03	0.8
	06/03/03	0.7
	03/20/03	0.4
	12/05/02	0.6
	08/28/02	1.5
	05/31/02	0.7
	03/05/02	1.1
	11/27/01	1.9
	09/07/01	0.91
	05/18/01	0.6
	06/16/00	0.1
	01/13/00	0.22
	09/02/99	0.3
	06/01/99	1.1

Table A-1-1
Summary of Dissolved Oxygen Measurements
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	Dissolved Oxygen
	Analytical Method	Field
		(mg/L)
937GW39 (deep)	03/09/99	0.13
	12/02/98	0.1
	08/31/98	4.65
	05/21/98	0.11
	02/18/98	0.68
	12/03/97	0.83
	08/28/97	0
	06/16/97	0.03
	03/18/97	0.04
937GW42 (intermediate)	03/05/07	1.20
	03/14/06	0.43
	03/18/05	0.3
	03/12/04	0.1
	12/09/03	1
	08/20/03	0.9
	06/09/03	0.8
	03/20/03	0.4
	12/05/02	0.9
	08/29/02	0.9
	06/04/02	0.7
	03/06/02	0.9
	11/28/01	1.4
	09/06/01	0.61
	05/16/01	1
	06/16/00	0.18
	01/10/00	0.98
	09/03/98	0.73
	05/28/98	0.67
	02/24/98	0.42
	11/25/97	0.13
	08/26/97	0.35
	06/04/97	0.14
	03/10/97	0
937GW101 (shallow)	03/06/07	0.43
	03/13/06	0.09
	03/18/05	0.6
	03/16/04	0.66
	12/04/03	0.7
	08/12/03	0.9
	06/04/03	1.7
	03/19/03	0.2
	12/10/02	0.7
	08/28/02	0.7
	06/04/02	1.1
	03/08/02	4
	11/27/01	0.9
	09/06/01	0.4

Table A-1-1
Summary of Dissolved Oxygen Measurements
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	Dissolved Oxygen
	Analytical Method	Field
		(mg/L)
937GW102 (intermediate)	03/05/07	1.20
	03/13/06	2.87
	03/18/05	0.7
	03/16/04	0.62
	12/04/03	0.8
	08/12/03	0.6
	06/03/03	1.2
	03/19/03	0.3
	12/10/02	1
	08/28/02	0.9
	05/30/02	1.4
	03/08/02	3.8
	11/28/01	1
	09/06/01	0.4
937GW103 (deep)	03/05/07	3.80
	03/13/06	3.42
	03/18/05	0.7
	03/16/04	0.7
	12/04/03	0.6
	08/12/03	0.7
	06/03/03	1.7
	03/19/03	0.4
	12/10/02	3.4
	08/28/02	0.9
	05/30/02	0.9
	03/08/02	4.4
	11/27/01	2.4
	09/06/01	0.4
937GW104 (shallow)	03/05/07	0.03
	03/13/06	1.3
	03/30/05	0.8
	03/12/04	0.48
	12/08/03	2.1
	08/12/03	0.3
	06/03/03	0.3
	03/11/03	1
	12/10/02	0.4
	08/30/02	0.4
	05/31/02	0.4
	03/13/02	4.3
	12/03/01	1.1
	09/07/01	0.98
937GW105 (intermediate)	03/05/07	0.21
	03/13/06	0.9
	03/30/05	1
	03/16/04	0.11
	12/09/03	1
	08/15/03	0.4
	06/04/03	0.3
	03/19/03	0.2
	12/10/02	0.3
	09/05/02	0.5
	05/31/02	0.4
	03/13/02	0.9
	12/03/01	0.74
	09/07/01	6.3

Table A-1-1
Summary of Dissolved Oxygen Measurements
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	Dissolved Oxygen
	Analytical Method	Field
		(mg/L)
937GW106 (shallow)	03/05/07	0.70
	03/13/06	1.5
	03/30/05	1.3
	03/16/04	0.37
	12/09/03	0.8
	08/18/03	0.4
	06/04/03	0.5
	03/18/03	0.2
	12/10/02	0.2
	09/05/02	0.5
	05/31/02	0.3
	03/13/02	0.3
	11/29/01	1.4
	08/31/01	1.3
937GW107 (intermediate)	03/05/07	0.30
	03/14/06	0.4
	03/30/05	0.7
	03/16/04	0.1
	12/09/03	1.4
	08/18/03	0.3
	06/03/03	0.2
	03/18/03	0.2
	12/10/02	0.3
	09/05/02	0.4
	05/31/02	0.4
	03/13/02	0.4
	11/29/01	0.8
	08/31/01	NM
937GW108 (shallow)	03/05/07	0.90
	03/13/06	0.09
	03/17/05	0.4
	03/19/04	1.1
	12/03/03	0.5
	08/15/03	0.4
	06/03/03	0.6
	03/19/03	0.4
	12/10/02	1.1
	09/05/02	1.9
	06/04/02	1.6
950GW108 (intermediate)	03/06/07	NM
	03/09/06	0.81
	03/31/05	0.8
	03/16/04	0.39
	12/04/03	NM
	08/12/03	0.9
	06/06/03	0.3
	03/18/03	0.4
	12/11/02	0.1
	08/29/02	0.7
	06/04/02	0.9
	03/14/02	0.4
	11/30/01	0.4
	09/06/01	4.65

Table A-1-1
Summary of Dissolved Oxygen Measurements
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	Dissolved Oxygen
	Analytical Method	Field
		(mg/L)
979GW109 (shallow)	03/05/07	0.09
	03/14/06	0.5
	03/18/05	0.8
	03/16/04	0.4
	12/09/03	0.5
	08/20/03	0.4
	06/06/03	0.3
	03/19/03	0.8
	12/10/02	2.7
	08/29/02	0.8
	06/04/02	1.1
	03/08/02	1.8
	11/28/01	2
	09/07/01	0.57
979GW110 (intermediate)	03/05/07	0.12
	03/14/06	0.4
	03/18/05	0.7
	03/16/04	0.7
	12/04/03	0.7
	08/12/03	0.8
	06/05/03	2
	03/19/03	0.8
	12/11/02	0.5
	08/29/02	0.9
	05/30/02	0.9
	03/14/02	0.2
	11/28/01	4.1
	09/07/01	4.5
979GW111R (intermediate)	03/13/06	0.1
	03/05/07	0.13
	03/30/05	1.1
	03/12/04	0.11
	12/09/03	1.7
	08/12/03	0.3
	06/03/03	1.4
	03/11/03	1.9
	12/10/02	0.6
	08/30/02	0.3
	06/05/02	1.5
979GW112 (shallow)	03/05/07	0.62
	03/14/06	0.3
	03/30/05	1.4
	03/12/04	0.09
	12/09/03	0.9
	08/15/03	0.6
	06/03/03	0.5
	03/18/03	0.2
	12/10/02	0.3
	08/30/02	0.3
	06/05/02	0.3
	03/14/02	2.7
	12/03/01	1.3
	08/31/01	3.8

Table A-1-1
Summary of Dissolved Oxygen Measurements
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	Dissolved Oxygen
	Analytical Method	Field
		(mg/L)
979GW113 (shallow)	03/06/07	0.47
	03/14/06	1
	03/18/05	0.6
	03/16/04	0.43
	12/04/03	0.9
	08/12/03	1
	06/05/03	2.4
	03/19/03	0.4
	12/10/02	2.7
	08/28/02	1.1
	05/30/02	1.1
	03/13/02	1.1
	11/29/01	0.8
	09/07/01	6.9
979GW114 (intermediate)	03/06/07	0.62
	03/14/06	0.3
	03/18/05	NM
	03/16/04	0.6
	12/04/03	NM
	08/12/03	0.5
	06/04/03	2.1
	03/19/03	0.2
	12/10/02	2.9
	08/28/02	1
	05/30/02	1.1
	03/13/02	0.9
	11/29/01	0.6
	09/07/01	10.4
979GW115 (shallow)	03/06/07	0.20
	03/13/06	0.5
	03/30/05	1.1
	03/12/04	0.24
	12/09/03	0.5
	08/12/03	0.3
	06/03/03	0.3
	03/18/03	0.3
	12/11/02	0.2
	08/30/02	0.3
	06/05/02	0.3
	03/13/02	1.7
	11/29/01	1
	08/29/01	4.7
979GW116 (intermediate)	03/06/07	0.22
	03/14/06	0.3
	03/31/05	0.9
	03/16/04	0.15
	12/09/03	0.2
	08/18/03	0.3
	06/04/03	0.4
	03/19/03	0.3
	12/10/02	0.2
	09/05/02	0.4
	06/06/02	4.3
	03/14/02	3.9
	11/29/01	1
	08/29/01	4.2

Table A-1-1
Summary of Dissolved Oxygen Measurements
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	Dissolved Oxygen
	Analytical Method	Field
		(mg/L)
979GW117 (deep)	03/05/07	0.42
	03/13/06	0.2
	03/17/05	0.60
	03/12/04	0.15
	12/08/03	2.1
	08/12/03	0.3
	06/03/03	0.3
	03/18/03	0.2
	12/10/02	0.4
	08/30/02	0.3
	05/31/02	1.4
	03/13/02	1.6
	11/29/01	1.4
	08/29/01	8.1

Notes
mg/L - milligrams per liter
NM - Not measured
Table 11 in the main report identifies current and historical data qualifiers.

Table A-1-2
Results of VOC Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-DCE (cis & trans)	Cis-1,2-DCE	Trans-1,2-DCE	1,4-Dichloro-benzene	2-Butanone	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-benzene	Chloro-methane	Dichloro-methane	Ethyl-benzene	MTBE	PCE	Styrene	Toluene	TCE	Vinyl Chloride	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	--	--	**140,000**	**140,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**81**	**525**	--	--
937GW06 (shallow)	03/05/07	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/14/06	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/17/05	< 0.5	< 0.5	NA	3.9	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/16/04	< 0.5	< 0.5	NA	0.6	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/05/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/18/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/03/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/20/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	0.1 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/05/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/28/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/31/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/05/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/27/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/06/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/16/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/20/00	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	01/10/00	< 0.5	< 0.5	NA	1	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/01/99	< 0.5	< 0.5	NA	1.8	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/01/99	< 0.5	< 0.5	NA	1.2	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/15/99	< 0.5	< 0.5	NA	4 (J33)	0.56	< 0.5	NA	NA	0.3 (J28)	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	4.7 (J33)	< 0.5	ND
	12/14/98	< 0.5	< 0.5	NA	16	2.5	< 0.5	NA	NA	< 1.2 (U2)	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	14	< 0.5	ND
	09/03/98	< 0.5	< 0.5	NA	1.9 (J18)	0.55 (J18)	< 0.5	NA	NA	< 0.5 (U18)	< 0.5	< 5	< 0.5	0.72 (J18)	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 0.5	ND
	05/27/98	< 0.5	< 0.5	NA	1.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/24/98	< 0.5	< 0.5	NA	12	2.1	< 0.5	NA	NA	1.4	< 0.5	< 5	< 0.5	0.62	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	17	< 0.5	ND
	11/25/97	< 0.5	< 0.5	NA	2.3	0.64	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/26/97	< 0.5	< 0.5	NA	1.7	0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/04/97	< 0.5	< 0.5	NA	1	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/10/97	< 0.5	< 0.5	NA	0.65	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/11/96	< 0.5	< 0.5	NA	0.96	< 0.5	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	0.55	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/14/96	< 0.5	< 0.5	0.94	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/15/96	< 0.5	< 0.5	7.8	NA	NA	< 0.5	< 10	< 10	0.7	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	18	< 0.5	ND
	01/23/96	< 0.5	< 0.5	3.3	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	10/19/95	< 0.5 U	< 0.5	NA	7.3	7.7	NA	< 10	< 10	0.54	< 0.5 U	< 5	< 0.5 U	< 0.5	< 4.5 U	< 0.5 U	NA	< 0.5 U	< 0.5	< 0.5	< 0.5	2.5	< 0.5 U	ND
	07/19/95	< 0.5	< 0.5	4.4	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/26/95	< 0.5	< 0.5	16	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	1.7	< 0.5	ND
	02/03/95	< 0.5	< 0.5	7.2	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	5	< 0.5	ND
	11/07/94	< 0.5	< 0.5	0.79	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	07/28/94	< 0.5	< 0.5	0.76	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/28/94	< 0.5	< 0.5	1.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/11/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/01/93	< 0.5	NA	NA	0.68	< 0.5	< 0.5	NA	< 10	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/02/93	< 0.5	NA	NA	0.65	< 0.5	< 0.5	NA	< 5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	ND
937GW07 (shallow)	03/08/07	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/14/06	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/23/05	< 0.5	< 0.5	NA	0.6	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/18/04	< 0.5	< 0.5	NA	0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/10/03	< 0.5	< 0.5	NA	1	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/18/03	< 0.5	< 0.5	NA	0.6	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/06/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/20/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 0.4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/05/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/06/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/04/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/06/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1 U	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/07/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/18/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/20/00	< 0.5	< 0.5	NA	< 0.5 (U20)	< 0.5 (U20)	< 0.5	NA	NA	< 0.5 (U20)	< 0.5	< 5	< 0.5	< 0.5 (U20)	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5 (U20)	< 0.5 (U20)	< 0.5 (U20)	< 0.5	ND
	01/20/00	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND

Table A-1-2
Results of VOC Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-DCE (cis & trans)	Cis-1,2-DCE	Trans-1,2-DCE	1,4-Dichloro-benzene	2-Butanone	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-benzene	Chloro-methane	Dichloro-methane	Ethyl-benzene	MTBE	PCE	Styrene	Toluene	TCE	Vinyl Chloride	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	--	--	**140,000**	**140,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**81**	**525**	--	--
937GW07 (shallow)	12/07/98	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/02/98	< 0.5	< 0.5	NA	< 0.5 (U18)	< 0.5 (U18)	< 0.5	NA	NA	< 0.5 (U18)	< 0.5	< 5	< 0.5	< 0.5 (U18)	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 0.5	ND
	05/19/98	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/25/98	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/01/97	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/27/97	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/16/97	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/18/97	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/18/96	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/21/96	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/17/96	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	01/25/96	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	10/24/95	< 0.5 U	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 0.5 U	< 5	< 0.5 U	< 0.5	< 4.5 U	< 0.5 U	NA	< 0.5 U	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 U	ND
	07/27/95	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/04/95	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/03/95	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/02/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/11/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/11/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/11/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/02/93	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	NA	< 10	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	ND
	07/30/93	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	NA	< 5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	ND
937GW12 (shallow)	03/05/07	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/13/06	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/16/05	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/12/04	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/03/03	< 0.5	< 0.5	NA	0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/18/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/03/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 J,U	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.7	< 0.5	ND
	03/20/03	< 0.5	< 0.5	NA	< 0.5	0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5	ND
	12/05/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/28/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1	< 0.5	ND
	05/31/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/05/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/27/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	1	< 0.5	< 0.5	< 0.5	ND
	09/06/01	< 0.5	< 0.5	NA	0.6	< 0.5	NA	< 10	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/15/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 10	< 10 UJ	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/19/00	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	0.62	< 0.5	< 0.5	ND
	01/11/00	< 0.5	< 0.5	NA	1.2	0.58	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	0.98	< 0.5	ND
	09/01/99	< 0.5	< 0.5	NA	1.8	5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	7	< 0.5	ND
	06/02/99	< 0.5	< 0.5	NA	1.7	4.8	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	0.66	5.2	< 0.5	ND
	03/10/99	< 0.5	< 0.5	NA	0.57	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	2.8	< 0.5	< 0.5	ND
	12/07/98	< 0.5	< 0.5	NA	3.8	5.1	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	39	< 0.5	ND
	09/01/98	< 0.5	< 0.5	NA	2.7 (J18)	< 0.5 (U18)	< 0.5	NA	NA	< 0.5 (U18)	< 0.5	< 5	< 0.5	0.74 (J18)	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5 (U18)	< 0.5 (U18)	0.66 (J18)	< 0.5	ND
	05/26/98	< 0.5	< 0.5	NA	18	7.7	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	1.5	9.4	< 0.5	ND
	02/25/98	< 0.5	< 0.5	NA	27	12	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	8.6	1.6	< 0.5	ND
	12/01/97	< 1	< 1	NA	43	12	< 1	NA	NA	< 1	< 1	< 10	< 1	< 1	< 9	< 1	NA	< 1	< 1	< 1	1.8	6.4	< 1	ND
	08/27/97	< 0.5	< 0.5	NA	1.2	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	0.87	< 0.5	ND
	06/10/97	< 0.5	< 0.5	NA	3	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	1.5	< 0.5	ND
	03/13/97	< 0.5	< 0.5	NA	1.7	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/13/96	< 0.5	< 0.5	NA	1.9	< 0.5	< 0.5	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	0.93	< 0.5	ND
	08/16/96	< 0.5	< 0.5	1.2	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/20/96	< 0.5	< 0.5	1.3	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	0.59	< 0.5	ND

Table A-1-2
Results of VOC Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-DCE (cis & trans)	Cis-1,2-DCE	Trans-1,2-DCE	1,4-Dichloro-benzene	2-Butanone	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-benzene	Chloro-methane	Dichloro-methane	Ethyl-benzene	MTBE	PCE	Styrene	Toluene	TCE	Vinyl Chloride	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	--	--	**140,000**	**140,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**81**	**525**	--	--
937GW12 (shallow)	01/26/96	< 0.5	< 0.5	1.2	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	0.65	< 0.5	ND
	10/25/95	< 0.5 U	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 0.5 U	< 5	< 0.5 U	< 0.5	< 4.5 U	< 0.5 U	NA	< 0.5 U	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 U	ND
	07/26/95	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/03/95	< 0.5	< 0.5	0.94	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/09/95	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/01/94	< 0.5	< 0.5	2.4	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	0.65	< 0.5	ND
	08/10/94	< 0.5	< 0.5	1.1	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	0.66	< 0.5	ND
	05/10/94	< 0.5	< 0.5	2.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/14/94	< 0.5	< 0.5	3.1	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/02/93	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	NA	< 10	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/02/93	< 0.5	NA	NA	0.5	< 0.5	< 0.5	NA	< 5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	0.56	< 0.5	ND
937GW15 (shallow)	03/08/07	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/15/06	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/23/05	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/18/04	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/10/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/18/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/06/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/20/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/05/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/06/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/04/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/06/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/07/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0907014A	09/07/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/17/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/20/00	< 0.5	< 0.5	NA	< 0.5 (U20)	< 0.5 (U20)	< 0.5	NA	NA	< 0.5 (U20)	< 0.5	< 5	< 0.5	< 0.5 (U20)	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5 (U20)	< 0.5 (U20)	< 0.5 (U20)	< 0.5	ND
	01/20/00	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/02/99	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/02/99	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/10/99	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/07/98	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/01/98	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	0.66	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/19/98	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/16/98	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/20/97	< 0.5	< 0.5	NA	0.89	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	ND
	08/21/97	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	8.4	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/02/97	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/04/97	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/05/96	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/09/96	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/15/96	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	01/23/96	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	10/19/95	< 0.5 U	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 0.5 U	< 5	< 0.5 U	< 0.5	< 4.5 U	< 0.5 U	NA	< 0.5 U	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 U	ND
	07/21/95	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/28/95	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/01/95	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/08/94	< 0.5	< 0.5	4.2	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	0.61	< 0.5	ND
	08/04/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	0.74	< 0.5	< 0.5	< 0.5	ND
	05/03/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/18/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/03/93	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	NA	< 10	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/03/93	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	NA	< 5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	ND

Table A-1-2
Results of VOC Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-DCE (cis & trans)	Cis-1,2-DCE	Trans-1,2-DCE	1,4-Dichloro-benzene	2-Butanone	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-benzene	Chloro-methane	Dichloro-methane	Ethyl-benzene	MTBE	PCE	Styrene	Toluene	TCE	Vinyl Chloride	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	--	--	**140,000**	**140,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**81**	**525**	--	--
937GW32R (deep)	03/02/07	< 0.5	< 0.5	NA	0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/14/06	< 0.5	< 0.5	NA	1.8	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/18/05	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/12/04	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/09/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/18/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	0.1 J	< 1 UJ	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/03/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/20/03	< 0.5	< 0.5	NA	0.7	< 0.5	NA	< 10	< 10	0.2 J	< 1	< 0.5	< 0.5	< 1	< 4	0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.3	ND
	12/05/02	< 0.5	< 0.5	NA	0.7	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/29/02	< 0.5	< 0.5	NA	0.8	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/04/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1.0	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/05/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/27/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/06/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0906011B	09/06/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/16/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/16/00	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	01/13/00	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/09/99	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/01/99	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/15/99	< 12	< 12	NA	< 12	< 12	< 12	NA	NA	< 12	< 12	< 120	< 12	< 12	< 110	< 12	NA	< 12	< 12	< 12	< 12	< 12	< 12	ND
	12/14/98	< 12	< 12	NA	< 12	< 12	< 12	NA	NA	< 12	< 12	< 120	< 12	< 12	< 110	< 12	NA	< 12	< 12	< 12	< 12	< 12	< 12	ND
	09/03/98	< 12	< 12	NA	< 12 (U18)	< 12 (U18)	< 12	NA	NA	< 12 (U18)	< 12	< 120	< 12	< 12 (U18)	< 110	< 12	NA	< 12	< 12	< 12 (U18)	< 12 (U18)	< 12 (U18)	< 12	ND
	05/27/98	< 12	< 12	NA	< 12	< 12	< 12	NA	NA	< 12	< 12	< 120	< 12	< 12	< 110	< 12	NA	< 12	< 12	< 12	< 12	< 12	< 12	ND
	02/24/98	< 12	< 12	NA	< 12	< 12	< 12	NA	NA	< 12	< 12	< 120	< 12	< 12	< 110	< 12	NA	< 12	< 12	< 12	< 12	< 12	< 12	ND
	11/25/97	< 12	< 12	NA	< 12	< 12	< 12	NA	NA	< 12	< 12	< 120	< 12	< 12	< 110	< 12	NA	< 12	< 12	< 12	< 12	< 12	< 12	ND
	08/26/97	< 5	< 5	NA	< 5	< 5	< 5	NA	NA	< 5	< 5	< 50	< 5	< 5	< 45	< 5	NA	< 5	< 5	< 5	< 5	< 5	< 5	ND
	06/04/97	< 2.5	< 2.5	NA	< 2.5	< 2.5	< 2.5	NA	NA	< 2.5	< 2.5	< 25	< 2.5	< 2.5	< 22	< 2.5	NA	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	ND
	03/04/97	< 12	< 12	NA	< 12	< 12	< 12	NA	NA	< 12	< 12	< 120	< 12	< 12	< 110	< 12	NA	< 12	< 12	< 12	< 12	< 12	< 12	ND
	11/05/96	< 12	< 12	NA	< 12	< 12	< 12	< 250	< 250	< 12	< 12	< 120	< 12	< 12	< 110	< 12	NA	< 12	< 12	< 12	< 12	< 12	< 12	ND
	08/09/96	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/15/96	< 12	< 12	< 12	NA	NA	< 12	< 250	< 250	< 12	< 12	< 120	< 12	< 12	< 110	< 12	NA	< 12	< 12	< 12	< 12	< 12	< 12	ND
	01/23/96	< 12	< 12	< 12	NA	NA	< 12	< 250	< 250	< 12	< 12	< 120	< 12	< 12	< 110	< 12	NA	< 12	< 12	< 12	< 12	< 12	< 12	ND
	10/19/95	< 0.5 U	< 0.5	NA	2.9	< 0.5	NA	< 10	< 10	< 0.5	< 0.5 U	< 5	< 0.5 U	< 0.5	< 4.5 U	< 0.5 U	NA	< 0.5 U	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 U	ND
	07/20/95	< 12	< 12	< 12	NA	NA	NA	< 250	< 250	< 12	< 12	< 120	< 12	< 12	< 110	< 12	NA	< 12	< 12	< 12	< 12	< 12	< 12	ND
	04/27/95	< 12	< 12	< 12	NA	NA	NA	< 250	< 250	< 12	< 12	< 120	< 12	< 12	< 110	< 12	NA	< 12	< 12	< 12	< 12	< 12	< 12	ND
	02/13/95	< 12	< 12	< 12	NA	NA	NA	< 250	< 250	< 12	< 12	< 120	< 12	< 12	< 110	< 12	NA	< 12	< 12	< 12	< 12	< 12	< 12	ND
	11/01/94	< 5	< 5	< 5	NA	NA	NA	< 100	< 100	< 5	< 5	< 50	< 5	< 5	< 45	< 5	NA	< 5	< 5	< 5	< 5	< 5	< 5	ND
	07/29/94	< 0.5	< 0.5	1.6	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/06/94	< 0.5	< 0.5	0.81	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/10/94	< 0.5	< 0.5	2.9	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/10/93	< 0.5	NA	NA	7.2	< 0.5	< 0.5	NA	< 10	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/06/93	< 0.5	NA	NA	1.6	< 0.5	< 0.5	NA	< 5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	ND
937GW35 (shallow)	03/02/07	< 0.5	< 0.5	NA	0.6	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.9	< 1	ND
	03/13/06	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	2	< 1	ND
	03/18/05	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.9	< 1	ND
	03/16/04	< 0.5	< 0.5	NA	0.7	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.4	< 0.5	ND
	12/09/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.1	< 0.5	< 0.5	ND
	08/20/03	< 0.5	< 0.5	NA	0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.4	< 0.5	ND
	06/03/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.7	0.7	< 0.5	ND
	03/20/03	< 0.5	< 0.5	NA	0.6	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.7	< 0.5	< 0.5	ND
	12/05/02	< 0.5	< 0.5	NA	0.8	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1	2.4	< 0.5	ND
	08/29/02	< 0.5	< 0.5	NA	0.6	< 0.5	NA	< 10	< 10	0.3 J	< 1	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	3.8	< 0.5	ND
DUP0829023A	08/29/02	< 0.5	< 0.5	NA	0.6	< 0.5	NA	< 10	< 10	0.3 J	< 1	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.7	3.7	< 0.5	ND
	06/04/02	< 0.5	< 0.5	NA	0.8	< 0.5	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.8	0.6	< 0.5	ND
	03/05/02	< 0.5	< 0.5	NA	0.6	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.1	< 0.5	< 0.5	ND
	11/27/01	< 0.5	< 0.5	NA	0.6	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.1	< 0.5	< 0.5	ND
DUP1127011A	11/27/01	< 0.5	< 0.5	NA	0.6	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.1	< 0.5	< 0.5	ND
	09/06/01	< 0.5	< 0.5	NA	0.8	< 0.5	NA	< 10	< 10	0.1 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	4.4	< 0.5	ND

Table A-1-2
Results of VOC Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-DCE (cis & trans)	Cis-1,2-DCE	Trans-1,2-DCE	1,4-Dichloro-benzene	2-Butanone	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-benzene	Chloro-methane	Dichloro-methane	Ethyl-benzene	MTBE	PCE	Styrene	Toluene	TCE	Vinyl Chloride	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	--	--	**140,000**	**140,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**81**	**525**	--	--
937GW35 (shallow)	05/16/01	< 0.5	< 0.5	NA	0.8	0.7	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	3.3	< 0.5	ND
	06/16/00	< 0.5	< 0.5	NA	0.78	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	0.59	7.1	< 0.5	ND
	09/01/99	< 0.5	< 0.5	NA	1.4	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	0.54	3.6	< 0.5	ND
	06/01/99	< 0.5	< 0.5	NA	0.91	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	7.1	< 0.5	ND
	03/09/99	< 0.5	< 0.5	NA	1	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	0.82	4.3	< 0.5	ND
	12/02/98	< 0.5	< 0.5	NA	1.2	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	0.61	7.4	< 0.5	ND
	09/03/98	< 0.5	< 0.5	NA	1.2	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	7.3	< 0.5	ND
	05/18/98	< 0.5	< 0.5	NA	1.8	0.53	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	0.7	2.9	< 0.5	ND
	02/11/98	< 0.5	< 0.5	NA	2	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	1.7	0.9	< 0.5	ND
	11/17/97	< 0.5	< 0.5	NA	1.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	0.61	9.7	< 0.5	ND
	08/18/97	< 0.5	< 0.5	NA	1.3	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.54 (U2)	9.7	< 0.5	ND
	05/27/97	< 0.5	< 0.5	NA	1	0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	7.8	< 0.5	ND
	03/03/97	< 0.5	< 0.5	NA	0.77	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	13	< 0.5	ND
	11/04/96	< 0.5	< 0.5	NA	1.2	0.51	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	8	< 0.5	ND
	08/08/96	< 0.5	< 0.5	0.96	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	1	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	14	< 0.5	ND
	04/09/96	< 0.5	< 0.5	1.5	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	0.9	3.8	< 0.5	ND
	01/17/96	< 0.5	< 0.5	2.4	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	1.9	4.5	< 0.5	ND
	10/16/95	< 0.5 U	< 0.5	NA	1.8	0.63	NA	< 10	< 10	< 0.5	< 0.5 U	35	< 0.5 U	< 0.5	< 4.5 U	< 0.5 U	NA	< 0.5 U	< 0.5	< 0.5	0.79	6.3	< 0.5 U	ND
	07/18/95	< 0.5	< 0.5	0.54	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	9.4	< 0.5	ND
	04/25/95	< 0.5	< 0.5	2.2	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	0.54	4.7	< 0.5	ND
	01/31/95	< 0.5	< 0.5	2.7	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	1.2	5.2	< 0.5	ND
	10/25/94	< 0.5	< 0.5	9.1	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	9.7	< 0.5	ND
	08/10/94	< 0.5	< 0.5	3.2	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	8.5	< 0.5	ND
	05/05/94	< 0.5	< 0.5	1.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	11	< 0.5	ND
	02/15/94	< 0.5	< 0.5	2.4	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	0.55	13	< 0.5	ND
	11/12/93	< 0.5	NA	NA	1.4	0.52	< 0.5	NA	< 10	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	6.1	< 0.5	ND
	08/09/93	< 0.5	NA	NA	2.1 (J5)	0.7 (J5)	< 0.5	NA	< 5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	8.6 (J5)	< 0.5	ND
937GW37 (shallow)	03/02/07	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/13/06	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/16/05	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/12/04	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/03/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/15/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/03/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 J,U	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/19/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/05/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/28/02	< 0.5	< 0.5	NA	0.6	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/31/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/05/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/27/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/06/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/15/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 10	< 10 UJ	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/19/00	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	01/13/00	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/02/99	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/02/99	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/10/99	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/07/98	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/02/98	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/26/98	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/26/98	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/97	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/28/97	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/11/97	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/17/97	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND

Table A-1-2
Results of VOC Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-DCE (cis & trans)	Cis-1,2-DCE	Trans-1,2-DCE	1,4-Dichloro-benzene	2-Butanone	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-benzene	Chloro-methane	Dichloro-methane	Ethyl-benzene	MTBE	PCE	Styrene	Toluene	TCE	Vinyl Chloride	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	--	--	**140,000**	**140,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**81**	**525**	--	--
937GW37 (shallow)	11/15/96	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/20/96	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/23/96	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	01/31/96	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	10/30/95	< 0.5 U	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 0.5 U	< 5	< 0.5 U	< 0.5	< 4.5 U	< 0.5 U	NA	< 0.5 U	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 U	ND
	07/26/95	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/03/95	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/09/95	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	10/27/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/05/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/09/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/17/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/16/93	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	NA	< 10	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/10/93	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	NA	< 5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	ND
937GW38 (deep)	03/05/07	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/13/06	< 0.5	< 0.5	NA	0.7	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/16/05	< 0.5	< 0.5	NA	1 J+	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/12/04	< 0.5	< 0.5	NA	7.2	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/03/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/18/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/03/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 J,U	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/19/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	1	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	0.6	< 0.5	< 0.5	1.6	< 0.5	< 0.5	0.5	ND
	12/05/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/28/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/31/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/05/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/27/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/06/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/15/01	< 0.5	< 0.5	NA	15	2.7	< 0.5	< 10	< 10 UJ	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/19/00	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	01/11/00	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/02/99	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/02/99	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/10/99	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/03/98	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/01/98	< 0.5	< 0.5	NA	< 0.5 (U18)	< 0.5 (U18)	< 0.5	NA	NA	< 0.5 (U20)	< 0.5	< 5	< 0.5	< 0.86 (U18, U4)	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 0.5	ND
	05/26/98	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/26/98	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	0.6	< 0.5	< 0.5	ND
	12/02/97	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/27/97	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/10/97	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/13/97	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/13/96	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/16/96	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/09/96	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	01/17/96	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	10/16/95	< 0.5 U	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 0.5 U	< 5	< 0.5 U	< 0.5	< 4.5 U	< 0.5 U	NA	< 0.5 U	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 U	ND
	07/17/95	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/24/95	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	01/31/95	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	10/25/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/09/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/10/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/15/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/15/93	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	NA	< 10	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/09/93	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	NA	< 5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	ND

Table A-1-2
Results of VOC Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-DCE (cis & trans)	Cis-1,2-DCE	Trans-1,2-DCE	1,4-Dichloro-benzene	2-Butanone	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-benzene	Chloro-methane	Dichloro-methane	Ethyl-benzene	MTBE	PCE	Styrene	Toluene	TCE	Vinyl Chloride	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	--	--	**140,000**	**140,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**81**	**525**	--	--
937GW39 (deep)	03/05/07	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/13/06	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/17/05	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/12/04	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/05/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/18/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/03/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/20/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/05/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/28/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/31/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/05/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/27/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/07/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/18/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0518013BCL	05/18/01	< 0.5	< 1	NA	< 1	< 1	< 1	< 10	< 50	< 1	< 5	< 1	< 0.5	< 1	< 4	< 0.5	< 5	< 0.5	< 1	< 1	< 1	< 1	< 0.5	ND
937GW39CL	05/18/01	< 0.5	< 1	NA	< 1	< 1	< 1	< 10	< 50	< 1	< 5	< 5	< 0.5	< 1	< 5	< 0.5	< 5	< 0.5	< 1	< 1	< 1	< 1	< 0.5	ND
	06/16/00	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	01/13/00	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/02/99	< 0.5	< 0.5	NA	0.81	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/01/99	< 0.5	< 0.5	NA	1.4	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/09/99	< 0.5	< 0.5	NA	0.55	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/98	< 0.5	< 0.5	NA	1.1	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/31/98	< 0.5	< 0.5	NA	1.4	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/21/98	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/18/98	< 0.5	< 0.5	NA	0.85	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/03/97	< 0.5	< 0.5	NA	0.69	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/28/97	< 0.5	< 0.5	NA	1.2	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/16/97	< 0.5	< 0.5	NA	2.4	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/18/97	< 0.5	< 0.5	NA	3	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/18/96	< 0.5	< 0.5	NA	0.5	< 0.5	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/21/96	< 0.5	< 0.5	0.73	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/17/96	< 0.5	< 0.5	2.7	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	01/25/96	< 0.5	< 0.5	1.5	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	10/24/95	< 0.5 U	< 0.5	NA	1.3	< 0.5	NA	< 10	< 10	< 0.5	< 0.5 U	< 5	< 0.5 U	< 0.5	< 4.5 U	< 0.5 U	NA	< 0.5 U	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 U	ND
	07/31/95	< 0.5	< 0.5	2.6	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/08/95	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/01/95	< 0.5	< 0.5	0.76	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	10/26/94	< 0.5	< 0.5	1.2	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/12/94	< 0.5	< 0.5	0.68	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/11/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/16/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/15/93	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	NA	< 10	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/10/93	< 0.5	NA	NA	1.1 (J5)	< 0.5	< 0.5	NA	< 5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	ND
937GW42 (intermediate)	03/05/07	< 0.5	< 0.5	NA	21	9.3	NA	< 10	< 10	0.2 J	0.5 J	< 0.5 UJ	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/14/06	< 0.5	< 0.5	NA	20	17	NA	< 10	< 10	2.3	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.8	< 1	ND
	03/18/05	< 0.5	< 0.5	NA	88	43	NA	< 10	< 10	0.6	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	6.5	< 1	ND
	03/17/04	< 0.5	< 0.5	NA	26	2.5	NA	< 10	< 10	0.3 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	3.9	< 0.5	ND
	12/09/03	< 0.5	< 0.5	NA	12	2.2	NA	< 10	< 10	0.4 J	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.5	< 0.5	ND
	08/20/03	< 0.5	< 0.5	NA	15	3.6	NA	< 10	< 10	2.9	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	3.7	< 0.5	ND
	06/09/03	< 0.5	< 0.5	NA	5.5	3	NA	< 10	< 10	7.9	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.3	0.8	ND
	03/20/03	< 0.5	< 0.5	NA	20	3.4	NA	< 10	< 10	6.2	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	4.6	< 0.5	ND
	12/05/02	< 0.5	< 0.5	NA	9	2.8	NA	< 10 UJ	< 10 UJ	0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.4	< 0.5	ND
	08/29/02	< 0.5	< 0.5	NA	11	3.2	NA	< 10	< 10	1.1	< 1	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	3.1	< 0.5	ND
	06/04/02	< 0.5	< 0.5	NA	12	1.5	NA	< 10	< 10 UJ	0.2 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	4.2	< 0.5	ND
DUP0604021B	06/04/02	< 0.5	< 0.5	NA	11	1.3	NA	< 10	< 10 UJ	0.2 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	3.9	< 0.5	ND
937GW42CL	06/04/02	< 0.5	< 0.5	NA	8.6	0.71	NA	< 50	< 50 UJ	< 0.5	< 1	< 5	< 0.5	< 1	< 5	< 0.5	< 5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	1.5	< 1	ND
	03/06/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	61 J-	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0306022C	03/06/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	64 J-	< 0.5	0.6 J,J-	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND

Table A-1-2
Results of VOC Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-DCE (cis & trans)	Cis-1,2-DCE	Trans-1,2-DCE	1,4-Dichloro-benzene	2-Butanone	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-benzene	Chloro-methane	Dichloro-methane	Ethyl-benzene	MTBE	PCE	Styrene	Toluene	TCE	Vinyl Chloride	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	--	--	**140,000**	**140,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**81**	**525**	--	--
937GW42 (intermediate)	11/28/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	23	< 0.5	< 1 U	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP1128011C	11/28/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	22	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
937GW42CL	11/28/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 50	< 50	< 0.5	< 1	< 5	< 0.5	< 1	< 5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/06/01	< 0.7	< 0.7	NA	< 0.7	< 0.7	NA	15	160	< 0.7	< 1.4	8.4	< 0.7	< 1.4	< 5.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	ND
DUP0906011C	09/06/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	15	170	< 0.5	< 1	4	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	ND
	05/16/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 10	78	< 0.5	< 1	1.6	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/16/00	< 0.5	< 0.5	NA	0.64 (J5)	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.77	ND
	01/10/00	< 0.5	< 0.5	NA	8	1.3	< 0.5	NA	NA	0.19	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	3.7	< 0.5	ND
	09/03/98	< 1	< 1	NA	41 (J18)	9.2 (J18)	< 1	NA	NA	4.8 (J18)	< 1	< 10	< 1	1.3 (J18)	< 9	< 1	NA	< 1	< 1	< 1 (U18)	< 1 (U18)	14 (J18)	< 1	ND
	05/28/98	< 0.5	< 0.5	NA	16	3.1	< 0.5	NA	NA	1.4	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	7.5	< 0.5	ND
	02/24/98	< 0.5	< 0.5	NA	4	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/25/97	< 0.5	< 0.5	NA	5.5	0.86	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/26/97	< 0.5	< 0.5	NA	7.6	2.1	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	3.8	< 0.5	ND
	06/04/97	< 0.5	< 0.5	NA	3.1	1.8	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	4.8	< 0.5	ND
	03/10/97	< 0.5	< 0.5	NA	2.1	0.61	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/11/96	< 0.5	< 0.5	NA	5.2	9.4	< 0.5	< 10	< 10	1.1	< 0.5	< 5	< 0.5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	4.2	< 0.5	ND
	08/14/96	< 0.5	< 0.5	14	NA	NA	< 0.5	0.92	< 10	0.9	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	6.4	< 0.5	ND
	04/12/96	< 0.5	< 0.5	9.8	NA	NA	< 0.5	< 10	< 10	1.1	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	27	< 0.5	ND
	01/22/96	< 0.5	< 0.5	47	NA	NA	< 0.5	< 10	< 10	0.95	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	8.3	< 0.5	ND
	10/20/95	< 0.5 U	< 0.5	NA	37	71	NA	< 10	< 10	2.4	< 0.5 U	< 5	< 0.5 U	< 0.5	< 4.5 U	< 0.5 U	NA	< 0.5 U	< 0.5	< 0.5	< 0.5	23	< 0.5 U	ND
	07/24/95	< 5	< 5	300	NA	NA	NA	< 100	< 100	4.6	< 5	< 50	< 5	< 5	< 45	< 5	NA	< 5	< 5	< 5	< 5	20	< 5	ND
	05/01/95	< 5	< 5	290	NA	NA	NA	< 100	< 100	< 5	< 5	< 50	< 5	< 5	< 45	< 5	NA	< 5	< 5	< 5	< 5	22	< 5	ND
	02/14/95	< 0.5	< 0.5	21	NA	NA	NA	< 10	< 10	0.26 (J28)	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	11	< 0.5	ND
	10/27/94	< 0.5	< 0.5	8	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	2	< 0.5	ND
	08/01/94	< 0.5	< 0.5	5.8	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	3.1	< 0.5	ND
	05/05/94	< 0.5	< 0.5	4	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	0.84	< 0.5	ND
937GW101 (shallow)	03/06/07	< 0.5	< 0.5	NA	0.6 J+	2.5 J+	NA	< 10	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/13/06	< 0.5	< 0.5	NA	0.8	4.2	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/18/05	< 0.5	< 0.5	NA	2.1	10	NA	< 10	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.1	< 1	ND
	03/16/04	< 0.5	< 0.5	NA	7.8	4.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	30	< 0.5	ND
	12/04/03	< 0.5	< 0.5	NA	0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/12/03	< 0.5	< 0.5	NA	0.6	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.8	< 0.5	ND
	06/04/03	< 0.5	< 0.5	NA	0.9	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	5.2	< 0.5	ND
	03/19/03	< 0.5	< 0.5	NA	< 0.5 U	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	12	< 0.5	ND
	12/10/02	< 0.5	< 0.5	NA	0.6	< 0.5	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	2	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.3	< 0.5	ND
	08/28/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.2	< 0.5	ND
	06/04/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.1	< 0.5	ND
	03/08/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	0.8	< 0.5	< 0.5	< 0.5	ND
	11/27/01	< 0.5	< 0.5	NA	0.8	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/06/01	< 0.5	< 0.5	NA	1.0	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
937GW102 (intermediate)	03/05/07	< 0.5	< 0.5	NA	4.1	3.4	NA	< 10	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/13/06	< 0.5	< 0.5	NA	8	8.4	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.8	< 1	ND
	03/18/05	< 0.5	< 0.5	NA	14	14	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.8	< 1	ND
	03/16/04	< 0.5	< 0.5	NA	55	44	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.2	< 0.5	ND
	12/04/03	< 0.5	< 0.5	NA	52	52	NA	< 10	< 10	0.1 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	18	< 0.5	ND
	08/12/03	< 0.5	< 0.5	NA	32	41	NA	< 10	< 10	0.2 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	20	< 0.5	ND
	06/03/03	< 0.5	< 0.5	NA	32	49	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	37	< 0.5	ND
	03/19/03	< 0.5	< 0.5	NA	< 0.5 U	18	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	12	< 0.5	ND
	12/10/02	< 0.5	< 0.5	NA	13	33	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	12	< 0.5	ND
	08/28/02	< 0.5	< 0.5	NA	8.7	26	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	12	< 0.5	ND
	05/30/02	< 0.5	< 0.5	NA	6.8	10	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	3.9	< 0.5	ND
	03/08/02	< 0.5	< 0.5	NA	1.5	1.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/28/01	< 0.5	< 0.5	NA	18	27	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	8.8	< 0.5	ND
	09/06/01	< 0.5	< 0.5	NA	16	22	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	14	< 0.5	ND

Table A-1-2
Results of VOC Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-DCE (cis & trans)	Cis-1,2-DCE	Trans-1,2-DCE	1,4-Dichloro-benzene	2-Butanone	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-benzene	Chloro-methane	Dichloro-methane	Ethyl-benzene	MTBE	PCE	Styrene	Toluene	TCE	Vinyl Chloride	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	--	--	**140,000**	**140,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**81**	**525**	--	--
937GW103 (deep)	03/05/07	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/13/06	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/18/05	< 0.5	< 0.5	NA	0.6	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/16/04	< 0.5	< 0.5	NA	0.9	0.6	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/03	< 0.5	< 0.5	NA	1.1	1	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP1204032A	12/04/03	< 0.5	< 0.5	NA	0.8	1.1	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
937GW103CL	12/04/03	< 0.5	< 0.5	1.7	NA	NA	< 0.5	< 5	< 10 R	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/12/03	< 0.5	< 0.5	NA	0.6	1	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/03/03	< 0.5	< 0.5	NA	1.1	1.6	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/19/03	< 0.5	< 0.5	NA	< 0.5 U	3.4	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 U	< 0.5	ND
	12/10/02	< 0.5	< 0.5	NA	1.7	2.9	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	0.5	< 0.5	ND
	08/28/02	< 0.5	< 0.5	NA	2.4	3.3	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1	< 0.5	ND
	05/30/02	< 0.5	< 0.5	NA	3.7	4.8	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.2	< 0.5	ND
	03/08/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/27/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/06/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
937GW104 (shallow)	03/05/07	< 0.5	< 0.5	NA	6.7 J+	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2 J+	< 1	ND
	03/13/06	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/30/05	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/12/04	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/08/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/12/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/03/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 J,U	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/11/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/10/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/30/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/31/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/13/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/03/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	0.7 Jb	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/07/01	< 0.5 UJ	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
937GW105 (intermediate)	03/05/07	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/13/06	< 0.5	< 0.5	NA	2.4	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	3.9	< 1	ND
	03/30/05	< 0.5	< 0.5	NA	0.8	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	3.3	< 1	ND
	03/16/04	< 0.5	< 0.5	NA	1	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	< 0.5	ND
	12/09/03	< 0.5	< 0.5	NA	0.8	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/15/03	< 0.5	< 0.5	NA	0.8	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0815031A	08/15/03	< 0.5	< 0.5	NA	0.7	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
937GW105CL	08/15/03	< 0.5	< 0.5	0.92	NA	NA	< 0.5	< 5	< 10	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/04/03	< 0.5	< 0.5	NA	0.9	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/19/03	< 0.5	< 0.5	NA	0.6	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/10/02	< 0.5	< 0.5	NA	0.7	< 0.5	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/05/02	< 0.5	< 0.5	NA	0.8	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0905022A	09/05/02	< 0.5	< 0.5	NA	0.9	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/31/02	< 0.5	< 0.5	NA	0.8	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/13/02	< 0.5	< 0.5	NA	0.8	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/03/01	< 0.5	< 0.5	NA	0.6	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/07/01	< 0.5	< 0.5	NA	0.9	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
937GW106 (shallow)	03/05/07	< 0.5	< 0.5	NA	1.1 J+	< 0.5	NA	< 10	< 10	0.2 J J+	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.5 J+	< 0.5	< 1	ND
	03/13/06	< 0.5	< 0.5	NA	0.6	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	3.6	< 0.5	< 1	ND
	03/30/05	< 0.5	< 0.5	NA	0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.4	< 0.5	< 1	ND
	03/16/04	< 0.5	< 0.5	NA	1.3	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.8	< 0.5	< 0.5	ND
	12/09/03	< 0.5	< 0.5	NA	1.8	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.7	< 0.5	< 0.5	ND
	08/18/03	< 0.5	< 0.5	NA	2.3	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.7	< 0.5	< 0.5	ND
	06/04/03	< 0.5	< 0.5	NA	1.9	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.2	< 0.5	< 0.5	ND
	03/18/03	< 0.5	< 0.5	NA	1.2	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.6	< 0.5	< 0.5	ND
	12/10/02	< 0.5	< 0.5	NA	1.8	< 0.5	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.4	< 0.5	< 0.5	ND
	09/05/02	< 0.5	< 0.5	NA	1.9	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.8	< 0.5	< 0.5	ND
	05/31/02	< 0.5	< 0.5	NA	1.2	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.3	< 0.5	< 0.5	ND
	03/13/02	< 0.5	< 0.5	NA	1.2	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	4.7	< 0.5	< 0.5	ND
	11/29/01	< 0.5	< 0.5	NA	1.0	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.4	< 0.5	< 0.5	ND
	08/31/01	< 0.5	< 0.5	NA	1.0	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.9	< 0.5	< 0.5	ND

Table A-1-2
Results of VOC Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-DCE (cis & trans)	Cis-1,2-DCE	Trans-1,2-DCE	1,4-Dichloro-benzene	2-Butanone	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-benzene	Chloro-methane	Dichloro-methane	Ethyl-benzene	MTBE	PCE	Styrene	Toluene	TCE	Vinyl Chloride	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	--	--	**140,000**	**140,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**81**	**525**	--	--
937GW107 (intermediate)	03/05/07	< 0.5	< 0.5	NA	13	8.8	NA	< 10	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/14/06	< 0.5	< 0.5	NA	13	8.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/30/05	< 0.5	< 0.5	NA	9.8	8.4	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/16/04	< 0.5	< 0.5	NA	13	5.9	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/09/03	< 0.5	< 0.5	NA	12.0	4.2	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/18/03	< 0.5	< 0.5	NA	6.4	2.4	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0818031A	08/18/03	< 0.5	< 0.5	NA	6.1	2.3	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/03/03	< 0.5	< 0.5	NA	5	1.9	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/18/03	< 0.5	< 0.5	NA	2.6	1.3	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/10/02	< 0.5	< 0.5	NA	5.2	2.4	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/05/02	< 0.5	< 0.5	NA	4.4	2	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0905022B	09/05/02	< 0.5	< 0.5	NA	4.5	2	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/31/02	< 0.5	< 0.5	NA	3.2	1.7	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/13/02	< 0.5	< 0.5	NA	4.4	2.1	NA	< 10	< 10 UJ	< 0.5	< 1	1.7	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/29/01	< 0.5	< 0.5	NA	14	5.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/31/01	< 0.5	< 0.5	NA	14	6.2	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
937GW108 (shallow)	03/05/07	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	0.1 J	< 1	< 0.5 UJ	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/13/06	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/17/05	< 0.5	< 0.5	NA	0.7	< 0.5	NA	< 10	< 10	0.1 J	< 1	< 0.5 UJ	0.8	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/19/04	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	0.9	< 1	< 0.5	3.6	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.2	ND
	12/03/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	48	< 1	< 0.5	19	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	0.8	< 0.5	< 0.5	< 0.5	ND
DUP1203033B	12/03/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	46	< 1	< 0.5	17	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	0.8	< 0.5	< 0.5	< 0.5	ND
937GW108CL	12/03/03	< 1	< 1	< 1	NA	NA	1.8	< 10	< 20 R	34	< 2	< 10	15	< 1	1.9	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND
	08/15/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	24	< 1 UJ	< 0.5	45 J-	< 1 UJ	< 4	< 0.5	< 0.5	< 0.5	1.1	< 0.5	< 0.5	< 0.5	1.9	ND
	06/03/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	46	< 1	< 0.5	53	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	1.3	< 0.5	< 0.5	1.6	ND
	03/19/03	0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	54	< 1	2.8	29	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5	< 0.5	< 0.5	ND
DUP0319032A	03/19/03	0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	61	< 1	2.8	32	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5	< 0.5	0.6	ND
	12/10/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	15	< 1	2.5	3.1	< 1	< 4	< 0.5	< 0.5 UJ	< 0.5	< 0.5	3.3	< 0.5	< 0.5	0.7	ND
DUP1210022A	12/10/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	15	< 1	1.4	4.3	< 1	< 4	< 0.5	< 0.5 UJ	< 0.5	< 0.5	2.9	< 0.5	< 0.5	1.2	ND
937GW108CL	12/10/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.92	< 5	< 10	17	< 1	< 5	3.5	< 0.5	< 0.5	0.57	< 0.5	< 0.5	< 0.5	4	< 0.5	< 0.5	1.69	ND
	09/05/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	54 J-	7.7	< 1	< 0.5	5	< 1	< 4	0.7	< 0.5	< 0.5	< 0.5	6	< 0.5	< 0.5	2.5	ND
	06/04/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10 UJ	< 10 UJ	30	< 1	< 0.5	39	< 1	< 4	0.9	< 0.5	< 0.5	< 0.5	1	< 0.5	< 0.5	4.2	ND
950GW108 (intermediate)	03/06/07	< 1.3	< 1.3	NA	160	63	NA	< 25	< 25	< 1.3	< 2.5	< 1.3	< 1.3	< 2.5	< 10	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	4.5	< 2.5	ND
	03/09/06	< 1	< 1	NA	150	81	NA	< 20	< 20	0.5 J	< 2	< 1	< 1	< 2	< 8	< 1	< 1	< 1	< 1	< 1	< 1	3.9	< 2	ND
DUP0309062A	03/09/06	< 0.5	< 0.5	NA	160	89	NA	< 10	< 10	0.4 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	4.5	< 1	ND
950GW108CL	03/09/06	< 0.5 U	< 0.5 U	280 D	190 D	95 D	< 0.5 U	< 10 U	< 10 U	< 0.5 U	< 1 U	< 5 U	< 0.5 U	< 1 U	< 4.5 U	< 0.5 U	< 2 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	5.8	< 1 U	ND
	03/31/05	< 1.3	< 1.3	NA	160	54	NA	< 25	< 25	0.3 J	< 2.5	< 1.3	< 1.3	< 2.5	< 10	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	5.1	< 2.5	ND
DUP0331052A	03/31/05	< 1.3	< 1.3	NA	170	58	NA	< 25	< 25	0.4 J	< 2.5	< 1.3	< 1.3	< 2.5	< 10	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	5.2	< 2.5	ND
950GW108CL	03/31/05	< 0.5 U	< 0.5 U	NA	130 D	42 D	< 0.5 U	< 10 U	< 10 U	< 0.5 U	< 1 U	< 5 U	< 0.5 U	< 1 U	< 4.5 U	< 0.5 U	< 2 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	5.9	< 1 U	ND
	03/16/04	< 1.3	< 1.3	NA	260	78	NA	< 25	< 25 UJ	0.3 J	< 2.5	< 1.3	< 1.3	< 2.5	< 10	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	8.6	< 1.3	ND
DUP0316042B	03/16/04	< 1	< 1	NA	280	83	NA	< 20	< 20 UJ	0.3 J	< 2	< 1	< 1	< 2	< 8	< 1	< 1	< 1	< 1	< 1	< 1	9.3	< 1	ND
	12/04/03	< 0.8	1.9	NA	270	100	NA	< 17	< 17	0.6 J	< 1.7	< 0.8	< 0.8	< 1.7	< 6.7	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	18	< 0.8	ND
	08/12/03	< 0.6	< 0.6	NA	240	78	NA	< 13	< 13	0.5 J	< 1.3	< 0.6	< 0.6	< 1.3	< 5	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	12	< 0.6	ND
	06/06/03	< 0.5	< 0.5	NA	170	55	NA	< 10	< 10	0.2 J	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	11	< 0.5	ND
	03/18/03	< 0.5	< 0.5	NA	170	52	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	13	< 0.5	ND
DUP0318031B	03/18/03	< 0.5	< 0.5	NA	170	52	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	13	< 0.5	ND
950GW108CL	03/18/03	< 5	< 5	160	NA	NA	< 5	< 50 UJ	< 100 UJ	< 5	< 10	< 50 UJ	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 0.5	6.7	< 5	ND
	12/11/02	< 1	< 1	NA	260	74	NA	< 20	< 20	< 1	< 2	< 1	< 1	< 2	< 8	< 1	< 1 UJ	< 1	< 1	< 1	< 1	7.8	< 1	ND
	08/29/02	< 1	< 1	NA	250	65	NA	< 20	< 20	< 1	< 2	< 1	< 1	< 2	< 8	< 1	< 1	< 1	< 1	< 1	< 1	7.6	< 1	ND
DUP0829022A	08/29/02	< 0.5	< 0.5	NA	240	70	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	9.1	< 0.5	ND
950GW108CL	08/29/02	16	< 0.5	NA	190	57	NA	22 J	< 50	0.23 J	< 1	< 5	< 0.5	< 1 UJ	< 5 J,U	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	7.8	< 1	ND
	06/04/02	< 1	< 1	NA	280	66	NA	< 20	< 20 UJ	< 1	< 2	< 1	< 1	< 2	< 8	< 1	< 1	3.4	< 1	< 1	< 1	7.2	< 1	ND
DUP0604021A	06/04/02	< 0.7	< 0.7	NA	280	61	NA	< 14 UJ	< 14 UJ	< 0.7	< 1.4	< 0.7	< 0.7	< 1.4	< 5.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	6.7	< 0.7	ND
950GW108CL	06/04/02	9.3	< 2.5	NA	200	44	NA	< 250	< 250 UJ	< 2.5	< 5	< 25	< 2.5	< 5	3.4 J	< 2.5	< 25 UJ	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 5	ND
	03/14/02	< 0.5	< 0.5	NA	180	45	NA	< 10	< 10 UJ	0.2 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	8.5	< 0.5	ND
DUP0314022A	03/14/02	< 1	< 1	NA	200	30	NA	< 20	< 10 UJ	< 1	< 2	< 1	< 1	< 2	< 8	< 1	< 1	< 1	< 1	< 1	< 1	3.5	< 1	ND
950GW108CL	03/14/02	< 2	< 2	NA	200	36	< 2	< 200 R	< 200	< 2	< 4	< 20	< 2	< 4	< 20 UJ	< 2	< 20	< 2	< 2	< 2	< 2	6.1	< 4	ND
	11/30/01	< 0.7	< 0.7	NA	280	16	NA	< 14	< 14 UJ	0.2 J	< 1.4	< 0.7	< 0.7	< 1.4	< 5.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	2.2	15	< 0.7	ND
DUP1130011A	11/30/01	< 0.7	< 0.7	NA	260	15	NA	< 14	< 14 UJ	< 7	< 1.4	< 0.7	< 0.7	< 1.4	< 5.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	0.9	14	< 0.7	ND
	09/06/01	< 0.7 UJ	< 0.7	NA	200	10	NA	< 14	< 14 UJ	0.3 J	< 1.4 UJ	<0.7	< 0.7	< 1.4 UJ	< 5.7	< 0.7	< 0.7	< 0.7	< 0.7	<0.7	<0.7	9.4	< 0.7	ND

Table A-1-2
Results of VOC Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-DCE (cis & trans)	Cis-1,2-DCE	Trans-1,2-DCE	1,4-Dichloro-benzene	2-Butanone	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-benzene	Chloro-methane	Dichloro-methane	Ethyl-benzene	MTBE	PCE	Styrene	Toluene	TCE	Vinyl Chloride	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	--	--	**140,000**	**140,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**81**	**525**	--	--
979GW109 (shallow)	03/05/07	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/14/06	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/18/05	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10 UJ	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/16/04	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5	< 0.5	ND
	03/16/04	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5	< 0.5	ND
	12/09/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/20/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5	< 0.5	ND
	06/06/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	< 0.5	< 0.5	ND
	03/19/03	< 0.5	< 0.5	NA	< 0.5 U	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 U	< 0.5 U	< 0.5	ND
	12/10/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP1210022B	12/10/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/29/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.7	< 0.5	< 0.5	ND
	06/04/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.7	< 0.5	< 0.5	ND
	03/08/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5	< 0.5	ND
	11/28/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 U	0.8	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5	< 0.5	ND
	09/07/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10 UJ	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.7	< 0.5	< 0.5	ND
979GW110 (intermediate)	03/05/07	< 0.5	< 0.5	NA	12	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.4	< 1	ND
	03/14/06	< 0.5	< 0.5	NA	6.7	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.9	< 1	ND
	03/18/05	< 0.5	< 0.5	NA	3.2	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/16/04	< 0.5	< 0.5	NA	0.9	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/03	< 0.5	< 0.5	NA	6.6	0.7	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/12/03	< 0.5	< 0.5	NA	1.2	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/05/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/19/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0319032B	03/19/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/11/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/29/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/30/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/14/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/28/01	< 0.5	< 0.5	NA	5.7	< 0.5	NA	< 10	< 10 UJ	0.7	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	1.7	< 0.5	< 0.5	0.6	ND
	09/07/01	< 0.5	< 0.5	NA	3.6	0.6	NA	< 10 UJ	< 10	< 0.5	< 1	0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
979GW111R (intermediate)	03/05/07	< 0.5	< 0.5	NA	3.2 J+	4.4 J+	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	27 J+	0.5 J+	< 1	ND
	03/13/06	< 0.5	< 0.5	NA	3.9	4.8	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	47	< 0.5	< 1	ND
	03/30/05	< 0.5	< 0.5	NA	4.3	6.6	NA	< 10	< 10	0.2 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	35	0.6	< 1	ND
	03/12/04	< 0.5	< 0.5	NA	12	5.9	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	36	1.2	< 0.5	ND
	12/09/03	< 0.5	< 0.5	NA	14	5.4	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	34	1.1	< 0.5	ND
	08/12/03	< 0.5	< 0.5	NA	7.9	5.2	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	41	0.5	< 0.5	ND
	06/03/03	< 0.5	< 0.5	NA	4.2	6.8	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	64	< 0.5	< 0.5	ND
	03/11/03	< 0.5	< 0.5	NA	6.7	5.7	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	65	0.7	< 0.5	ND
	12/10/02	< 0.5	< 0.5	NA	9.5	4.5	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	25	< 0.5	< 0.5	ND
	08/30/02	< 0.5	< 0.5	NA	11	5.9	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	36	0.8	< 0.5	ND
	06/05/02	< 0.5	< 0.5	NA	11	6.0	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	49	1.1	< 0.5	ND
979GW112 (shallow)	03/05/07	< 0.5	< 0.5	NA	8.2	7.7	NA	< 10	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	19	3	< 1	ND
	03/14/06	< 0.5	< 0.5	NA	16	7.8	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	30	1.5	< 1	ND
	03/30/05	< 0.5	< 0.5	NA	9.7	8.1	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	27	2.9	< 1	ND
	03/12/04	< 0.5	< 0.5	NA	22	5.5	NA	< 10	< 10 UJ	< 0.5	0.5 J	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	27	3.1	< 0.5	ND
DUP0312041A	03/12/04	< 0.5	< 0.5	NA	22	5.7	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	26	3.3	< 0.5	ND
979GW112CL	03/12/04	< 0.5	< 0.5	27	NA	NA	< 0.5	< 5	< 10 R	< 0.5	< 1	< 5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	28	2.3	< 0.5	ND
	12/09/03	< 0.5	< 0.5	NA	23	6.1	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	29	2.3	< 0.5	ND
	08/15/03	< 0.5	< 0.5	NA	16	4.8	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	29	1.1	< 0.5	ND
DUP0815031B	08/15/03	< 0.5	< 0.5	NA	15	5.2	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	33	1.1	< 0.5	ND
979GW112CL	08/15/03	< 0.5	< 0.5	24	NA	NA	< 0.5	< 5	< 10	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	41	1.3	< 0.5	ND
	06/03/03	< 0.5	< 0.5	NA	14	5.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	39	1	< 0.5	ND
	03/18/03	< 0.5	< 0.5	NA	9.4	3.9	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	34	1.4	< 0.5	ND
	12/10/02	< 0.5	< 0.5	NA	16	6.1	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	27	0.5	< 0.5	ND
DUP1210021A	12/10/02	< 0.5	< 0.5	NA	19	7	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	28	1	< 0.5	ND
979GW112CL	12/10/02	< 0.5	< 0.5	26 J+	NA	NA	< 0.5	< 5	< 10	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	28	1.5 J+	< 0.5	ND
	08/30/02	< 0.5	< 0.5	NA	15	6.9	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	33	1.4	< 0.5	ND
	06/05/02	< 0.5	< 0.5	NA	20	4.4	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	29	2.1	< 0.5	ND
	03/14/02	< 0.5	< 0.5	NA	26	7.1	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	42	3.7	< 0.5	ND
	12/03/01	< 0.5	< 0.5	NA	4	0.9	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	7.1	4.8	< 0.5	ND
	08/31/01	< 0.5	< 0.5	NA	4.8	1.1	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	8.7	5.5	< 0.5	ND

Table A-1-2
Results of VOC Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-DCE (cis & trans)	Cis-1,2-DCE	Trans-1,2-DCE	1,4-Dichloro-benzene	2-Butanone	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-benzene	Chloro-methane	Dichloro-methane	Ethyl-benzene	MTBE	PCE	Styrene	Toluene	TCE	Vinyl Chloride	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	--	--	**140,000**	**140,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**81**	**525**	--	--
979GW113 (shallow)	03/06/07	< 0.5	< 0.5	NA	0.8 J+	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/14/06	< 0.5	< 0.5	NA	11	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	3.9	0.8	< 1	ND
	03/18/05	< 0.5	< 0.5	NA	7.4	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	3.1	0.6	< 1	ND
	03/16/04	< 0.5	< 0.5	NA	2.7	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.7	< 0.5	< 0.5	ND
	12/04/03	< 0.5	< 0.5	NA	0.7	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.0	< 0.5	< 0.5	ND
	08/12/03	< 0.5	< 0.5	NA	1.7	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.2	< 0.5	< 0.5	ND
	06/05/03	< 0.5	< 0.5	NA	1.6	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.5	< 0.5	< 0.5	ND
	03/19/03	< 0.5	< 0.5	NA	<0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	ND
	12/10/02	< 0.5	< 0.5	NA	0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	0.9	< 0.5	< 0.5	ND
	08/28/02	< 0.5	< 0.5	NA	3.4	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.1	0.7	< 0.5	ND
	05/30/02	< 0.5	< 0.5	NA	4.1	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.2	0.5	< 0.5	ND
	03/13/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	< 0.5	< 0.5	ND
DUP0313022A	03/13/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/29/01	< 0.5	< 0.5	NA	0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.7	< 0.5	< 0.5	ND
	09/07/01	< 0.5	< 0.5	NA	0.8	< 0.5	NA	< 10 UJ	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.9	< 0.5	< 0.5	ND
979GW114 (intermediate)	03/06/07	< 0.5	< 0.5	NA	2.4	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.0	< 0.5	< 1	ND
	03/14/06	< 0.5	< 0.5	NA	1	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/18/05	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/16/04	< 0.5	< 0.5	NA	2	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0316042A	03/16/04	< 0.5	< 0.5	NA	2.1	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
(intermediate)	12/04/03	< 0.5	< 0.5	NA	29	1.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	3.7	< 0.5	ND
	08/12/03	< 0.5	< 0.5	NA	33	1.3	NA	< 10	< 10	0.1 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.1	< 0.5	ND
	06/04/03	< 0.5	< 0.5	NA	29	0.8	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5	ND
	03/19/03	< 0.5	< 0.5	NA	< 0.5 U	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/10/02	< 0.5	< 0.5	NA	36	1.1	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	1.4	< 0.5	ND
	08/28/02	< 0.5	< 0.5	NA	31	0.9	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.8	< 0.5	ND
	05/30/02	< 0.5	< 0.5	NA	8.7	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0530021D	05/30/02	< 0.5	< 0.5	NA	8.6	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5	ND
	03/13/02	< 0.5	< 0.5	NA	25	< 0.5	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.9	< 0.5	ND
	11/29/01	< 0.5	< 0.5	NA	16	0.6	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.1	< 0.5	ND
	09/07/01	< 0.5	< 0.5	NA	9.1	< 0.5	NA	< 10 UJ	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
979GW115	03/06/07	< 0.5	< 0.5	NA	1.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
DUP0306071A	03/06/07	< 0.5	< 0.5	NA	1.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
979GW115CL	03/06/07	< 0.5	< 0.5	NA	1.8	< 0.5	NA	< 10 R	< 10 R	< 0.5	< 1	< 5	< 0.5	< 1	< 4.5	< 0.5	< 2	< 0.5	< 0.5	< 0.5	0.55	< 0.5	< 1	ND
(shallow)	03/13/06	< 0.5	< 0.5	NA	27	1.3	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.2	< 1	ND
	03/30/05	< 0.5	< 0.5	NA	21	1.3	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.5	< 1	ND
	03/12/04	< 0.5	< 0.5	NA	2.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	1.2	< 0.5	ND
	12/09/03	< 0.5	< 0.5	NA	2.8	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.5	< 0.5	< 0.5	ND
	08/12/03	< 0.5	< 0.5	NA	4.9	0.6	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.8	0.6	< 0.5	ND
	06/03/03	< 0.5	< 0.5	NA	13	0.9	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.0	1.2	< 0.5	ND
	03/18/03	< 0.5	< 0.5	NA	46	3.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.9	3	< 0.5	ND
	12/11/02	< 0.5	< 0.5	NA	3.6	0.6	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	1.8	1.5	< 0.5	ND
DUP1211021A	12/11/02	< 0.5	< 0.5	NA	3.1	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	2.0	1.5	< 0.5	ND
	08/30/02	< 0.5	< 0.5	NA	2.1	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.2	1	< 0.5	ND
	06/05/02	< 0.5	< 0.5	NA	6.3	0.8	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.1	2.6	< 0.5	ND
DUP0605021B	06/05/02	< 0.5	< 0.5	NA	6.5	0.8	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.0	2.8	< 0.5	ND
979GW115CL	06/05/02	< 0.5	< 0.5	NA	3.2	< 0.5	NA	< 50	< 50 UJ	< 0.5	< 1	< 5	< 0.5	< 1	< 4	< 0.5	< 5 UJ	< 0.5	< 0.5	< 0.5	0.26 J	< 0.5	< 0.5	ND
	03/13/02	< 0.5	< 0.5	NA	10	1.3	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.4	4	< 0.5	ND
	11/29/01	< 0.5	< 0.5	NA	3.3	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	4.6	0.6	< 0.5	ND
	08/29/01	< 0.5	< 0.5	NA	3.4	0.6	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	4.3	< 0.5	< 0.5	ND
979GW116 (intermediate)	03/06/07	< 0.5	< 0.5	NA	37	2.2	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
DUP0306071B	03/06/07	< 0.5	< 0.5	NA	38 J+	3.4 J+	NA	< 10	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/14/06	< 0.5	< 0.5	NA	50	2.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
DUP0314061A	03/14/06	< 0.5	< 0.5	NA	50	2.6	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/31/05	< 0.5	< 0.5	NA	79	3.3	NA	< 10	< 10	0.5 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 1	ND
DUP0331052B	03/31/05	< 0.5	< 0.5	NA	80	2.9	NA	< 10	< 10	0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.8	< 1	ND
979GW116CL	03/31/05	< 0.5 U	< 0.5 U	NA	54 D	3.2	< 0.5 U	< 10 U	< 10 U	< 0.5 U	< 1 U	< 5 U	< 0.5 U	< 1 U	< 4.5 U	< 0.5 U	< 2 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.74	< 1 U	ND
	03/16/04	< 0.5	< 0.5	NA	62	1.8	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/09/03	< 0.5	< 0.5	NA	45	1.8	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.7	< 0.5	ND
	08/18/03	< 0.5	< 0.5	NA	54	1.9	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.9	< 0.5	ND
	06/04/03	< 0.5	< 0.5	NA	68	2.1	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.3	0.8	< 0.5	ND
DUP0604031A	06/04/03	< 0.5	< 0.5	NA	82	2.6	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.6	1	< 0.5	ND
	03/19/03	< 0.5	0.6	NA	78	2.1	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.7	< 0.5	< 0.5	ND
DUP0319031A	03/19/03	< 0.5	0.6	NA	81	2.1	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.9	< 0.5	< 0.5	ND

Table A-1-2
Results of VOC Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-DCE (cis & trans)	Cis-1,2-DCE	Trans-1,2-DCE	1,4-Dichloro-benzene	2-Butanone	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-benzene	Chloro-methane	Dichloro-methane	Ethyl-benzene	MTBE	PCE	Styrene	Toluene	TCE	Vinyl Chloride	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	--	--	**140,000**	**140,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**81**	**525**	--	--
979GW116 (intermediate)	12/10/02	< 0.5	< 0.5	NA	35	1.2	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/05/02	< 0.5	< 0.5	NA	57	1.7	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.7	< 0.5	ND
DUP0905022C	09/05/02	< 0.5	< 0.5	NA	57	1.7	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5	ND
979GW116CL	09/05/02	< 0.5	< 0.5	NA	51	1.5	NA	< 50 R	< 50	< 0.5	< 1	< 5	< 0.5	< 1	< 5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	0.39 J	0.64	< 1	ND
	06/06/02	< 0.5	< 0.5	NA	89	2	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1	1.1	< 0.5	ND
	03/14/02	< 0.5	< 0.5	NA	120	2.4	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	1.4	< 0.5	ND
DUP0314021A	03/14/02	< 0.5	< 0.5	NA	120	2.3	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.5	< 0.5	ND
979GW116CL	03/14/02	< 0.5	< 0.5	NA	78	< 0.5	< 0.5	< 50 R	< 50	< 0.5	< 1	< 5	< 0.5	< 1	< 5 UJ	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	1.5	< 1	ND
	11/29/01	< 0.5	< 0.5	NA	34	1.7	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	5.1	< 0.5	ND
DUP1129011A	11/29/01	< 0.5	< 0.5	NA	34	1.6	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	4.7	< 0.5	ND
979GW116CL	11/29/01	< 0.5	< 0.5	NA	32	2.1	< 0.5	< 50	< 10	< 0.5	< 1	< 5	< 0.5	< 1	< 4	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	5.6	< 0.5	ND
	08/29/01	< 0.5	< 0.5	NA	29	1.8	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
979GW117 (deep)	03/05/07	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	<1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/13/06	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/17/05	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/12/04	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/08/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/12/03	< 0.5	< 0.5	NA	1.6	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/03/03	< 0.5	< 0.5	NA	0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/18/03	< 0.5	< 0.5	NA	2.6	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/10/02	< 0.5	< 0.5	NA	0.7	< 0.5	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/30/02	< 0.5	< 0.5	NA	0.8	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/31/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/13/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/29/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/29/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in their respective quarterly reports.
2 - Groundwater cleanup levels were taken from the *Final RAP, Crissy Field Area* , Presidio of San Francisco, California (Army, Headquarters, I Corps, and Fort Lewis and California DTSC, 1998).
Concentrations in **BOLD** indicate an exceedance of applicable cleanup levels.
µg/L - micrograms per liter
ND - Not Detected
NA - Not analyzed
1,2-DCE - 1,2-Dichloroethene
Cis-1,2-DCE - cis-1,2-Dichloroethene
Trans-1,2-DCE - trans-1,2-Dichloroethene
MTBE - Methyl tert-butyl ether
TCE - Trichloroethene
PCE - Tetrachloroethene
VOC - Volatile organic compound
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.
-- - Clean up concentrations not established.

Table A-1-3
Results of TPH Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
937GW06 (shallow)	03/05/07	< 50	< 50	< 300
	03/14/06	< 50	< 50	< 300
	03/17/05	< 50	< 50	< 300
	03/16/04	< 50	< 50	< 300
	12/05/03	< 50	< 50	< 300
	08/18/03	< 50	< 50	< 300
	06/03/03	< 50	< 50	< 300
	03/20/03	< 50	< 50	< 300
	12/05/02	< 50	< 50	< 300
	08/28/02	< 50	< 50	< 300
	05/31/02	< 50	< 50	< 300
	03/05/02	< 50	< 50	< 300
	11/27/01	< 50	< 50	< 300
	09/06/01	< 50	< 50 [2]	< 300 [2]
	05/16/01	< 50	< 50	< 300
	06/20/00	< 50 (U20)	< 50 (U12, U20, U21)	< 300 (U21)
	01/10/00	< 50	< 50 (U12)	< 300
	09/01/99	< 50	< 50	< 300
	06/01/99	< 50	< 50	< 300
	03/15/99	< 50	< 50	< 300
	12/14/98	< 50	< 50	< 300
	09/03/98	< 50 (U18)	< 50	< 300
	05/27/98	< 50	< 50	< 300
	02/24/98	< 50	< 50	< 300
	11/25/97	< 50	< 50	< 300
	08/26/97	< 50	< 50	< 300
	06/04/97	< 50	< 50	< 300
	03/10/97	< 50 (U29)	< 50 (U29)	< 300 (U29)
	11/11/96	< 50	< 50	< 300
	08/14/96	< 50	61 (J25)	< 300
	04/15/96	< 50	< 50	< 300
	01/23/96	< 50	< 50	350 (J25, J32)
	10/19/95	< 50	< 50	< 300
	07/19/95	< 50	< 50	< 300
	04/26/95	< 50	89 (J25)	NA
	02/03/95	< 50	< 50	NA
	11/07/94	< 50	< 50	NA
	07/28/94	< 50	310 (J25)	NA
	04/28/94	< 50	< 50	NA
	02/11/94	< 50	< 50	NA
	11/01/93	< 50	< 50	NA
	08/02/93	< 50	< 50	NA

Table A-1-3
Results of TPH Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
937GW07 (shallow)	03/08/07	< 50	< 50	< 300
	03/14/06	< 50	< 50	< 300
	03/23/05	< 50	< 50	< 300
	03/18/04	< 50	< 50	< 300
	12/10/03	< 50	< 50	< 300
	08/18/03	< 50	< 50	< 300
	06/06/03	< 50	< 50	< 300
	03/20/03	< 50	< 50	< 300
	12/05/02	< 50	< 50	< 300
	09/06/02	< 50	< 50	< 300
	06/04/02	< 50	< 50	< 300
	03/06/02	< 50	< 50	< 300
	12/04/01	< 50	< 50	< 300
	09/07/01	< 50	< 50 [2]	< 300 [2]
	05/18/01	< 50	< 50	< 300
	06/20/00	< 50 (U20)	< 50 (U12, U20, U21)	< 300 (U12, U20, U21)
	01/20/00	< 50	< 50 (U6, U12)	< 300 (U6)
	12/07/98	< 50	< 50	< 300
	09/02/98	< 50 (U18)	< 50	< 300
	05/19/98	< 50	< 50	< 300
	02/25/98	< 50	< 50	< 300
	12/01/97	< 50	< 50	< 300
	08/27/97	< 50	< 50	< 300
	06/16/97	< 50	< 50	< 300
	03/18/97	< 50	< 50	< 300
	11/18/96	< 50	< 50	< 300
	08/21/96	< 50	< 50	< 300
	04/17/96	< 50	< 50	< 300
	01/25/96	93 (J25)	62 (J25)	< 3000 (U23)
	10/24/95	< 50	< 50	< 300
	07/27/95	< 50	< 50	< 300
	05/04/95	< 50	81 (J25)	NA
	02/03/95	< 50	130 (J25)	NA
	11/02/94	< 50	< 50	NA
	08/11/94	< 50	130 (J25)	NA
	05/11/94	< 50	< 50	NA
	02/11/94	< 50	88 (J25)	NA
	11/02/93	< 50	< 50	NA
	07/30/93	< 50	< 50	NA

Table A-1-3
Results of TPH Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
937GW12 (shallow)	03/05/07	< 50	< 50	< 300
	03/13/06	< 50	< 50	< 300
	03/16/05	< 50	< 50	< 300
	03/12/04	< 50	< 50	< 300
	12/03/03	< 50	< 50	< 300
	08/18/03	< 50	< 50	< 300
	06/03/03	< 50	< 50	< 300
	03/20/03	< 50	< 50	< 300
	12/05/02	< 50	< 50	< 300
	08/28/02	< 50	< 50	< 300
	05/31/02	< 50	< 50	< 300
	03/05/02	< 50	< 50	< 300
	11/27/01	< 50	< 50	< 300
	09/06/01	< 50	110 [2] YH,NJ	< 300 [2] NJ
	05/15/01	< 50	< 50	< 300
	09/07/00	NA	< 50	< 300
	06/19/00	< 50	150 (J12, J21)	< 300 (U12, U21)
	01/11/00	< 50	< 50 (U12)	< 300
	09/01/99	< 50	< 50	< 300
	06/02/99	< 50	< 50	< 300
	03/10/99	< 50	< 50	< 300 (U12)
	12/07/98	< 50	< 50	< 300
	09/01/98	< 50 (U18)	< 50	< 300
	05/26/98	< 50	< 50	< 300
	02/25/98	< 50	< 50	< 300
	12/01/97	< 50	< 50	< 300
	08/27/97	< 50	< 50	< 300
	06/10/97	< 50	< 50	< 300
	03/13/97	< 50	< 50	< 300
	11/13/96	< 50	< 50	< 300
	08/16/96	< 50	250 (J25)	460 (J25)
	05/20/96	< 50	< 50	< 300
	01/26/96	< 50	< 50	< 3000 (U23)
	10/25/95	< 50	< 50	< 300
	07/26/95	< 50	< 50	< 300
	05/03/95	< 50	< 50	NA
	02/09/95	< 50	140 (J25)	NA
	11/01/94	< 50	71 (J25)	NA
	08/10/94	< 50	110 (J25)	NA
	05/10/94	< 50	62 (J25)	NA
	02/14/94	< 50	72 (J25)	NA
	11/02/93	< 50	< 50	NA
	08/02/93	< 50	< 50	NA

Table A-1-3
Results of TPH Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
937GW15 (shallow)	03/08/07	< 50	< 50	< 300
	03/15/06	< 50	< 50	< 300
	03/23/05	< 50	< 50	< 300
	03/18/04	< 50	< 50	< 300
	12/10/03	< 50	< 300	< 300
	08/18/03	< 50	< 50	< 300
	06/06/03	< 50	< 50	< 300
	03/20/03	< 50	< 50	< 300
	12/05/02	< 50	< 50	< 300
	09/06/02	< 50	< 50	< 300
	06/04/02	< 50	< 50	< 300
	03/06/02	< 50	< 50	< 300
	12/04/01	< 50	< 50	< 300
	09/07/01	< 50	< 50 [2]	< 300 [2]
DUP0907014A	09/07/01	< 50	< 50 [2]	< 300 [2]
	05/17/01	< 50	< 50	< 300
	06/20/00	< 50 (U20)	< 50 (U12, U20, U21)	< 300 (U12, U20, U21)
	01/20/00	< 50	< 50 (U12)	< 300
	09/02/99	< 50	< 50	< 300
	06/02/99	< 50	< 50	< 300
	03/10/99	< 50	< 50	< 300
	12/07/98	< 50	< 50	< 300
	09/01/98	< 50	< 50	< 300
	05/19/98	< 50	< 50	< 300
	02/16/98	< 50	< 50	< 300
	11/20/97	< 50	230 (J25)	< 300
	08/21/97	< 50	150 (R32)	< 300
	06/02/97	< 50	< 50	< 300
	03/04/97	< 50 (U6)	< 50	< 300
	11/05/96	< 50	< 50	< 300
	08/09/96	< 50	< 50	< 300
	04/15/96	< 50	< 50	< 300
	01/23/96	< 50	< 50	< 300
	10/19/95	< 50	< 50	< 300
	07/21/95	< 50	< 50	< 300
	04/28/95	< 50	98 (J25)	NA
	02/01/95	< 50	52 (J25)	NA
	11/08/94	< 50	< 50	NA
	08/04/94	< 50	350 (J25)	NA
	05/03/94	< 50	< 50	NA
	02/18/94	< 50	< 50	NA
	11/03/93	< 50	55 (J25)	NA
	08/03/93	< 50	< 50	NA

Table A-1-3
Results of TPH Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
937GW32R (deep)	03/02/07	< 50	< 50 b UJ	< 300 b UJ
	03/14/06	< 50	< 50	< 300
	03/18/05	< 50	< 50	< 300
	03/12/04	< 50	< 50	< 300
	12/09/03	< 50	< 50	< 300
	08/18/03	< 50	< 50	< 300
	06/03/03	< 50	< 50	< 300
	03/20/03	< 50	< 50	< 300
	12/05/02	< 50	< 50	< 300
	08/29/02	< 50	< 50	< 300
	06/04/02	< 50	< 50	< 300
	03/05/02	< 50	< 50	< 300
	11/27/01	< 50	< 50	< 300
	09/06/01	< 50	< 50 [2]	< 300 [2]
DUP0906011B	09/06/01	< 50	< 50 [2]	< 300 [2]
	05/16/01	< 50	< 50	< 300
	09/11/00	NA	270	< 300
	06/16/00	< 50	1,300 (J21)	< 1,500 (U21)
	01/13/00	< 50	1,700 (J21)	< 300
	09/09/99	< 50	< 50	< 300
	06/01/99	< 50	< 50	< 300
	03/15/99	< 500	< 50	< 300
	12/14/98	< 50	< 50	< 300
	09/03/98	< 50 (U18)	< 50	< 300
	05/27/98	< 50	< 50	< 300
	02/24/98	< 50	< 50	< 300
	11/25/97	< 50	< 50	< 300
	08/26/97	< 50	< 50	< 300
	06/04/97	< 50	< 50	< 300
	03/04/97	< 50 (U6)	< 50	< 300
	11/05/96	< 50	< 50	< 300
	08/09/96	< 50	< 50	< 300
	04/15/96	< 50	< 50	< 300
	01/23/96	< 50	< 50	< 300
	10/19/95	< 50	< 50	< 300
	07/20/95	< 50	< 50	< 300
	04/27/95	< 500	72 (J25, J6)	NA
	02/13/95	< 50	70 (J25)	NA
	11/01/94	< 50	160 (J25)	NA
	07/29/94	< 50	100 (J25)	NA
	05/06/94	< 50	< 50	NA
	02/10/94	< 50	< 50	NA
	11/10/93	< 50	< 50	NA
	08/06/93	< 50	< 50	NA

Table A-1-3
Results of TPH Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
937GW35 (shallow)	03/02/07	< 50	< 50 b UJ	< 300 b UJ
	03/13/06	< 50	< 50	< 300
	03/18/05	< 50	< 50	< 300
	03/16/04	< 50	< 50	< 300
	12/09/03	< 50	< 50	< 300
	08/20/03	< 50	< 50	< 300
	06/03/03	< 50	< 50	< 300
	03/20/03	< 50	< 50	< 300
	12/05/02	< 50	< 50	< 300
	08/29/02	< 50	< 50	< 300
DUP0829023A	08/29/02	< 50	< 50	< 300
	06/04/02	< 50	< 50	< 300
	03/05/02	< 50	< 50	< 300
	11/27/01	< 50	< 50	< 300
DUP1127011A	11/27/01	< 50	< 50	< 300
	09/06/01	< 50	740 [2] YH,NJ	520 [2] YL,NJ
	05/16/01	< 50	< 50	< 300
	09/07/00	NA	< 50 (U5)	< 300
	06/16/00	< 50	54 (J21)	< 300
	09/01/99	< 50	< 50	< 300
	06/01/99	< 50	< 50	< 300
	03/09/99	< 50	< 50 (U6)	< 300
	12/02/98	< 50	< 50	< 300
	09/03/98	< 50	< 50	< 300
	05/18/98	< 50	< 50	< 300
	02/11/98	< 50	< 50	< 300
	11/17/97	< 50	< 50	< 300
	08/18/97	< 50	< 50	< 300
	05/27/97	< 50	< 50	< 300
	03/03/97	< 50 (U6)	< 50	< 300
	11/04/96	< 50	< 50	< 300
	08/08/96	< 50	< 50	< 300
	04/09/96	320 (J25)	< 50	< 300
	01/17/96	< 50	< 50	< 300
	10/16/95	< 50	< 50	< 300
	07/18/95	< 50	< 50	< 300
	04/25/95	< 50	< 50	NA
	01/31/95	< 50	< 50	NA
	10/25/94	< 50	< 50	NA
	08/10/94	< 50	< 50 (U9)	NA
	05/05/94	< 50	< 50	NA
	02/15/94	< 50	51 (J25)	NA
	11/12/93	< 50	< 50	NA
	08/09/93	< 50	< 50	NA

Table A-1-3
Results of TPH Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
937GW37 (shallow)	03/02/07	< 50	< 50 b UJ	< 300 b UJ
	03/13/06	< 50	< 50	< 300
	03/16/05	< 50	< 50	< 300
	03/12/04	< 50	< 50	< 300
	12/03/03	< 50	< 50	< 300
	08/15/03	< 50	< 50	< 300
	06/03/03	< 50	< 50	< 300
	03/19/03	< 50	< 50	< 300
	12/05/02	< 50	< 50	< 300
	08/28/02	< 50	< 50	< 300
	05/31/02	< 50	< 50	< 300
	03/05/02	< 50	< 50	< 300
	11/27/01	< 50	< 50	< 300
	09/06/01	< 50	140 [2] YH,NJ	< 300 [2]
	05/15/01	< 50	< 50	< 300
	09/07/00	NA	< 50	< 300
	06/19/00	< 50	58 (U12, U21)	< 300 (U12, U21)
	01/13/00	< 50	< 50 (U6)	< 300 (U6)
	01/11/00	< 50	< 50	< 300
	09/02/99	< 50	< 50	715
	06/02/99	< 50	< 50	< 300
	03/10/99	< 50	< 50	< 300 (U12)
	12/07/98	< 50	< 50	< 300
	12/03/98	< 50	< 50	< 300
	09/02/98	< 50	< 50	< 300
	05/26/98	< 50	< 50	< 300
	02/26/98	< 50	< 50	< 300
	12/02/97	< 50	< 50	< 300
	08/28/97	< 50	< 50 (U29)	< 300
	06/11/97	< 50	< 50	< 300
	03/17/97	< 50	< 50	< 300
	11/15/96	< 50	< 50	< 300
	08/20/96	< 50	53 (J25)	< 300
	04/23/96	< 50	< 50	< 300
	01/31/96	< 50	< 50	420 (J25, J32)
	10/30/95	< 50	< 50	< 300
	07/26/95	< 50	< 50	< 300
	05/03/95	< 50	< 50	NA
	02/09/95	< 50	90 (J25)	NA
	10/27/94	< 50	83 (J25)	NA
	08/05/94	< 50	67 (J25)	NA
	05/09/94	< 50	< 50	NA
	02/17/94	< 50	54 (J25)	NA
	11/16/93	< 50	< 50	NA
	08/10/93	< 50	100 (J25)	NA

Table A-1-3
Results of TPH Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
937GW38 (deep)	03/05/07	< 50	< 50	< 300
	03/13/06	< 50	< 50	< 300
	03/16/05	< 50	< 50	< 300
	03/12/04	< 50	< 50	< 300
	12/03/03	< 50	< 50	< 300
	08/18/03	< 50	< 50	< 300
	06/03/03	< 50	< 50	< 300
	03/19/03	< 50	< 50	< 300
	12/05/02	< 50	< 50	< 300
	08/28/02	< 50	< 50	< 300
	05/31/02	< 50	< 50	< 300
	03/05/02	< 50	< 50	< 300
	11/27/01	< 50	< 50	< 300
	09/06/01	< 50	< 50 [2]	< 300 [2]
	05/15/01	< 50	< 50	< 300
	06/19/00	< 50	< 50 (U12, U21)	< 300 (U12, U21)
	01/11/00	< 50	< 50 (U12)	< 300
	09/02/99	< 50	< 50	< 300
	06/02/99	< 50	< 50	< 300 (U6)
	03/10/99	< 50	< 50	< 300
	12/03/98	< 50	< 50	< 300
	09/01/98	< 50 (U18)	< 50	< 300
	05/26/98	< 50	< 50	< 300
	02/26/98	< 50	< 50	< 300
	12/02/97	< 50	< 50	< 300
	08/27/97	< 50	< 50	< 300
	06/10/97	< 50	< 50	< 300
	03/13/97	< 50	< 50	< 300
	11/13/96	< 50	< 50	< 300
	08/16/96	< 50	68 (J25)	< 300
	04/09/96	< 50	< 50	< 300
	01/17/96	< 50	< 50	< 300
	10/16/95	< 50	< 50	< 300
	07/17/95	< 50	< 50	< 300
	04/24/95	< 50	< 50	NA
	01/31/95	< 50	< 50	NA
	10/25/94	< 50	< 50	NA
	08/09/94	< 50	< 50 (U9)	NA
	05/10/94	< 50	< 50	NA
	02/15/94	< 50	68 (J25)	NA
	11/15/93	< 50	< 50	NA
	08/09/93	< 50	< 50	NA

Table A-1-3
Results of TPH Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
937GW39 (deep)	03/05/07	< 50	< 50	< 300
	03/13/06	< 50	< 50	< 300
	03/17/05	< 50	< 50	< 300
	03/12/04	< 50	< 50	< 300
	12/05/03	< 50	< 50	< 300
	08/18/03	< 50	< 50	< 300
	06/03/03	< 50	< 50	< 300
	03/20/03	< 50	< 50	< 300
	12/05/02	< 50	< 50	< 300
	08/28/02	< 50	< 50	< 300
	05/31/02	< 50	< 50	< 300
	03/05/02	< 50	< 50	< 300
	11/27/01	< 50	< 50	< 300
	09/07/01	< 50	< 50 [2]	< 300 [2]
	05/18/01	< 50	< 50	< 300
DUP0518013BCL	05/18/01	< 50	< 50	< 500
937GW39CL	05/18/01	< 50	< 50	< 500
	06/16/00	< 50	< 50 (U21)	< 300 (U21)
	01/13/00	< 50	< 50	< 300
	09/02/99	< 50	< 50	< 300
	06/01/99	< 50	< 50	< 300
	03/09/99	< 50	< 50	< 300 (U12)
	12/02/98	66 (J25)	< 50	< 300
	08/31/98	< 50	< 50	< 300
	05/21/98	< 50	< 50	< 300
	02/18/98	< 50	< 50	< 300
	12/03/97	< 50	< 50	< 300
	08/28/97	< 50	< 50 (U29)	< 300
	06/16/97	< 50	< 50	< 300
	03/18/97	< 50	< 50	< 300
	11/18/96	< 50	< 50	< 300
	08/21/96	< 50	< 50	< 300
	04/17/96	< 50	< 50	< 300
	01/25/96	< 50	< 50	< 300
	10/24/95	< 50	< 50	< 300
	07/31/95	< 50	< 50	< 300
	05/08/95	< 50	< 50	NA
	02/01/95	< 50	120 (J25)	NA
	10/26/94	< 50	< 50	NA
	08/12/94	< 50	< 50	NA
	05/11/94	< 50	< 50	NA
	02/16/94	< 50	91 (J25)	NA
	11/15/93	< 50	< 50	NA
	08/10/93	< 50	69 (J25)	NA

Table A-1-3
Results of TPH Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
937GW42 (intermediate)	03/05/07	< 50	< 50	< 300
	03/14/06	< 50	< 50	< 300
	03/18/05	< 50	< 50	< 300
	03/17/04	< 50	< 50	< 300
	12/09/03	< 50	< 50	< 300
	08/20/03	< 50	< 50	< 300
	06/09/03	< 50	< 50	< 300
	03/20/03	< 50	< 50	< 300
	12/05/02	< 50	< 50	< 300
	08/29/02	< 50	< 50	< 300
	06/04/02	< 50	< 50	< 300
DUP0604021B	06/04/02	< 50	< 50	< 300
937GW42CL	06/04/02	< 50	860 [2] ndp,J-NJ	2,800 [2] NJ
	03/06/02	< 50	< 50	< 300
DUP0306022C	03/06/02	< 50	110 YH	340
	11/28/01	< 50	340 YH	490
DUP1128011C	11/28/01	< 50	720 YH	470
937GW42CL	11/28/01	< 50	150 ndp	530
	09/06/01	< 50	59,000 [2] YH,NJ	67,000 [2] YL,NJ
DUP0906011C	09/06/01	< 50	60,000 [2] YH,NJ	67,000 [2] YL,NJ
	05/16/01	< 50	< 50	< 300
	09/11/00	NA	4,100	3,700
	06/16/00	85	10,000 (J21)	12,000 (J21)
	01/10/00	< 50	< 50 (U12)	< 300
	09/03/98	< 50 (U18)	< 50	< 300
	05/28/98	< 50	< 50	< 300
	02/24/98	< 50	< 50	< 300
	11/25/97	< 50	< 50	< 300
	08/26/97	< 50	< 50	< 300
	06/04/97	< 50	< 50	< 300
	03/10/97	< 50	< 50 (U12, U20, U29)	< 300 (U29)
	11/11/96	< 50	< 50	< 300
	08/14/96	< 50	87 (J25)	< 300
	04/12/96	< 50	< 50	< 300
	01/22/96	< 50	< 50	< 300
	10/20/95	< 50	< 50	< 300
	07/24/95	< 50	< 50	< 300
	05/01/95	< 50	92 (J25)	NA
	02/14/95	< 50	57 (J25)	NA
	10/27/94	< 50	< 50	NA
	08/01/94	< 50	68 (J25)	NA
	05/05/94	< 50	< 50	NA

Table A-1-3
Results of TPH Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
937GW101 (shallow)	03/06/07	< 50	< 50	< 300
	03/13/06	< 50	< 50	< 300
	03/18/05	< 50	< 50	< 300
	03/16/04	< 50	< 50	< 300
	12/04/03	< 50	< 50	< 300
	08/12/03	< 50	< 50	< 300
	06/04/03	< 50	< 50	< 300
	03/19/03	< 50	< 50	< 300
	12/10/02	< 50	< 50	< 300
	08/28/02	< 50	< 50	< 300
	06/04/02	< 50	< 50	< 300
	03/08/02	< 50	< 50	< 300
	11/27/01	< 50	< 50	< 300
	09/06/01	< 50	63 [2] YH,NJ	< 300 [2]
937GW102 (intermediate)	03/05/07	< 50	< 50	< 300
	03/13/06	< 50	< 50	< 300
	03/18/05	< 50	< 50	< 300
	03/16/04	< 50	< 50	< 300
	12/04/03	< 50	< 50	< 300
	08/12/03	< 50	< 50	< 300
	06/03/03	< 50	< 50	< 300
	03/19/03	< 50	< 50	< 300
	12/10/02	< 50	< 50	< 300
	08/28/02	< 50	< 50	< 300
	05/30/02	< 50	< 50	< 300
	03/08/02	< 50	< 50	< 300
	11/28/01	< 50	< 50	< 300
	09/06/01	< 50	210 [2] YH,NJ	< 300 [2]
937GW103 (deep)	03/05/07	< 50	< 50	< 300
	03/13/06	< 50	< 50	< 300
	03/18/05	< 50	< 50	< 300
	03/16/04	< 50	< 50	< 300
	12/04/03	< 50	< 50	< 300
DUP1204032A	12/04/03	< 50	< 50	< 300
937GW103CL	12/04/03	< 50	< 48	< 240
	08/12/03	< 50	< 50	< 300
	06/03/03	< 50	< 50	< 300
	03/19/03	< 50	< 50	< 300
	12/10/02	< 50	< 50	< 300
	08/28/02	< 50	< 50	< 300
	05/30/02	< 50	< 50	< 300
	03/08/02	< 50	< 50	< 300
	11/27/01	< 50	< 50	< 300
	09/06/01	< 50	< 50 [2]	< 300 [2]

Table A-1-3
Results of TPH Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
937GW104 (shallow)	03/05/07	< 50	< 50	< 300
	03/13/06	< 50	< 50	< 300
	03/30/05	< 50	< 50	< 300
	03/12/04	< 50	< 50	< 300
	12/08/03	< 50	< 50	< 300
	08/12/03	< 50	< 50	< 300
	06/03/03	< 50	< 50	< 300
	03/11/03	< 50	< 50	< 300
	12/10/02	< 50	< 50	< 300
	08/30/02	< 50	< 50	< 300
	05/31/02	< 50	< 50	< 300
	03/13/02	< 50	< 50	< 300
	12/03/01	< 50	< 50	< 300
	09/07/01	< 50	< 50 [2]	< 300 [2]
937GW105 (intermediate)	03/05/07	< 50	< 50	< 300
	03/13/06	< 50	< 50	< 300
	03/30/05	< 50	< 50	< 300
	03/16/04	< 50	< 50	< 300
	12/09/03	< 50	< 50	< 300
	08/15/03	< 50	< 50	< 300
DUP0815031A	08/15/03	< 50	240 HY	< 300
937GW105CL	08/15/03	< 50	< 48	< 240
	06/04/03	< 50	< 50	< 300
	03/19/03	< 50	< 50	< 300
	12/10/02	< 50	< 50	< 300
	09/05/02	< 50	< 50	< 300
	09/05/02	< 50	< 50	< 300
DUP0905022A	09/05/02	< 50	< 50	< 300
	05/31/02	< 50	< 50	< 300
	03/13/02	< 50	< 50	< 300
	12/03/01	<50	< 50	< 300
	09/07/01	< 50	77 [2] YH,NJ	< 300 [2]
937GW106 (shallow)	03/05/07	< 50	< 50	< 300
	03/13/06	< 50	< 50	< 300
	03/30/05	< 50	< 50	< 300
	03/16/04	< 50	< 50	< 300
	12/09/03	< 50	< 50	< 300
	08/18/03	< 50	110 Y	< 300
	06/04/03	< 50	68 Y	< 300
	03/18/03	< 50	< 50 UJ	< 300 UJ
	12/10/02	< 50	< 50	< 300
	09/05/02	< 50	< 50	< 300
	05/31/02	< 50	< 50	< 300
	03/13/02	< 50	< 50	< 300
	11/29/01	< 50	< 50	< 300
	08/31/01	< 50	230 [2] YH,NJ	< 300 [2]

Table A-1-3
Results of TPH Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
937GW107 (intermediate)	03/05/07	< 50	< 50	< 300
	03/14/06	< 50	< 50	< 300
	03/30/05	< 50	< 50	< 300
	03/16/04	< 50	< 50	< 300
	12/09/03	< 50	< 50	< 300
	08/18/03	< 50	< 50	< 300
DUP0818031A	08/18/03	< 50	< 50	< 300
	06/03/03	< 50	< 50	< 300
	03/18/03	< 50	< 50	< 300
	12/10/02	100 YH	62 HY	470
	09/05/02	< 50	< 50	< 300
DUP0905022B	09/05/02	< 50	< 50	< 300
	05/31/02	< 50	< 50	< 300
	03/13/02	< 50	< 50	< 300
	11/29/01	< 50	< 50	< 300
	08/31/01	< 50	64 [2] Y,NJ	< 300 [2]
937GW108 (shallow)	03/05/07	72 HY	65 Y	< 300
	03/13/06	140 HY	55 LY	< 300
	03/17/05	380 HY	330 HLY	940
	03/19/04	620 HY	160 LY	580
	12/03/03	460 H,J+	< 50	< 300
DUP1203033B	12/03/03	390 H	50 Y	< 300
937GW108CL	12/03/03	290	1000 A-01	750
	08/15/03	430 Y,J+	400 HLY	840
	06/03/03	740 YH	530 HLYZ	760
	03/19/03	570	< 50	< 300
DUP0319032A	03/19/03	600	450 YLH	390 L
	12/10/02	850 YH	630 HLY	1,800
DUP1210022A	12/10/02	540 HY	60 Y	< 300
937GW108CL	12/10/02	680	< 50	800
	09/05/02	770 YH	< 50	< 300
	06/04/02	1,200 YH	680 YLH	1,900
950GW108 (intermediate)	03/06/07	< 50	< 50	< 300
	03/09/06	< 50	< 50	< 300
DUP0309062A	03/09/06	< 50	< 50	< 300
950GW108CL	03/09/06	< 50 U	120	< 300 U
	03/31/05	< 50	< 50	< 300
DUP0331052A	03/31/05	< 50	< 50	< 300
950GW108CL	03/31/05	< 50 U	< 50 U	< 300 U
	03/16/04	< 50	< 50	< 300
DUP0316042B	03/16/04	< 50	< 50	< 300
	12/04/03	< 50	< 50	< 300
	08/12/03	< 50	< 50	< 300
	06/06/03	< 50	< 50	< 300
	03/18/03	< 50	< 50 UJ	< 300 UJ
DUP0318031B	03/18/03	< 50	< 50	< 300
950GW108CL	03/18/03	< 50	< 50	< 250

Table A-1-3
Results of TPH Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
950GW108	12/11/02	< 50	< 50	< 300
(intermediate)	08/29/02	< 50	< 50	< 300
DUP0829022A	08/29/02	< 50	< 50	< 300
	08/29/02	< 50	< 50	< 300
	06/04/02	< 50	< 50	< 300
DUP0604021A	06/04/02	< 50	< 50	< 300
950GW108CL	06/04/02	< 50	< 50 UJ	< 300
	03/14/02	< 50	< 50	NA
DUP0314022A	03/14/02	< 50	< 50	NA
950GW108CL	03/14/02	< 50	< 50	NA
	11/30/01	< 50	< 50	< 300
DUP1130011A	11/30/01	< 50	< 50	< 300
	09/06/01	< 50	< 50 [2]	< 300 [2]
979GW109	03/05/07	< 50	< 50	< 300
(shallow)	03/14/06	< 50	< 50	< 300
	03/18/05	< 50	< 50	< 300
	03/16/04	< 50	< 50	< 300
	12/09/03	< 50	< 50	< 300
	08/20/03	< 50	< 50	< 300
	06/06/03	< 50	< 50	< 300
	03/19/03	< 50	< 50	< 300
	12/10/02	79 YH	< 50	< 300
DUP1210022B	12/10/02	< 50	< 50	< 300
	08/29/02	< 50	< 50	< 300
	06/04/02	< 50	< 50	< 300
	03/08/02	< 50	< 50	< 300
	11/28/01	< 50	< 50	< 300
	09/07/01	< 50	160 [2] YH,NJ	< 300 [2]
979GW110	03/05/07	< 50	< 50	< 300
(intermediate)	03/14/06	< 50	< 50	< 300
	03/18/05	< 50	< 50	< 300
	03/16/04	< 50	< 50	< 300
	12/04/03	< 50	< 50	< 300
	08/12/03	< 50	< 50	< 300
	06/05/03	< 50	100 HY	540
	03/19/03	< 50	< 50	< 300
DUP0319032B	03/19/03	< 50	< 50	< 300
	12/11/02	< 50	< 50	< 300
	08/29/02	< 50	< 50	< 300
	05/30/02	< 50	< 50	< 300
	03/14/02	< 50	< 50	NA
	11/28/01	< 50	< 50	< 300
	09/07/01	< 50	< 50 [2]	< 300 [2]

Table A-1-3
Results of TPH Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
979GW111R (intermediate)	03/05/07	< 50	< 50	< 300
	03/13/06	< 50	< 50	< 300
	03/30/05	< 50	< 50	< 300
	03/12/04	< 50	< 50	< 300
	12/09/03	< 50	< 50	< 300
	08/12/03	< 50	< 50	< 300
	06/03/03	< 50	< 50	< 300
	03/11/03	< 50	< 50	< 300
	12/10/02	< 50	< 50	< 300
	08/30/02	< 50	< 50	< 300
	06/05/02	< 50	< 50	< 300
979GW112 (intermediate)	03/05/07	< 50	< 50	< 300
	03/14/06	< 50	< 50	< 300
	03/30/05	< 50	< 50	< 300
	03/12/04	< 50	< 50	< 300
DUP0312041A	03/12/04	< 50	< 50 HY,U	< 300
979GW112CL	03/12/04	< 50	< 48	< 240
	12/09/03	< 50	< 50	< 300
	08/15/03	< 50	< 50	< 300
DUP0815031B	08/15/03	< 50	< 50	< 300
979GW112CL	08/15/03	< 50	< 48	< 240
	06/03/03	< 50	< 50	< 300
	03/18/03	< 50	< 50	< 300
	12/10/02	< 50	< 50	< 300
DUP1210021A	12/10/02	< 50	< 50	< 300
979GW112CL	12/10/02	< 50	< 50	< 250
	08/30/02	< 50	< 50	< 300
	06/05/02	< 50	< 50	< 300
	03/14/02	< 50	< 50	< 300
	12/03/01	< 50	< 50	< 300
	08/31/01	< 50	< 50 [2]	< 300 [2]
979GW113 (shallow)	03/06/07	< 50	< 50	< 300
	03/14/06	< 50	< 50	< 300
	03/18/05	< 50	< 50 Y U	< 300
	03/16/04	< 50	< 50	< 300
	12/04/03	< 50	< 50	< 300
	08/12/03	< 50	54 HY	< 300
	06/05/03	< 50	< 50	< 300
	03/19/03	< 50	710 YLH	760
	12/10/02	< 50	< 50	< 300
	08/28/02	< 50	< 50	< 300
	05/30/02	< 50	< 50	< 300
	03/13/02	< 50	< 50	< 300
DUP0313022A	03/13/02	< 50	< 50	< 300
	11/29/01	< 50	< 50	< 300
	09/07/01	< 50	310 [2] YH,NJ	< 300 [2]

Table A-1-3
Results of TPH Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
979GW114	03/06/07	< 50	< 50	< 300
(intermediate)	03/14/06	< 50	< 50	< 300
	03/18/05	< 50	< 50	< 300
	03/16/04	< 50	< 50	< 300
DUP0316042A	03/16/04	< 50	< 50	< 300
	12/04/03	< 50	< 50	< 300
	08/12/03	< 50	< 50	< 300
	06/04/03	< 50	< 50	< 300
	03/19/03	< 50	< 50	< 300
	12/10/02	< 50	< 50	< 300
	08/28/02	< 50	< 50	< 300
	05/30/02	< 50	< 50	< 300
DUP0530021D	05/30/02	< 50	< 50	< 300
	03/13/02	< 50	< 50	< 300
	11/29/01	< 50	< 50	< 300
	09/07/01	< 50	110 [2] YH,NJ	< 300 [2]
979GW115	03/06/07	< 50	< 50	< 300
DUP0306071A	03/06/07	< 50	< 50	< 300
979GW115CL	03/06/07	NA	< 50	< 300
(shallow)	03/13/06	< 50	< 50	< 300
	03/30/05	< 50	< 50	< 300
	03/12/04	< 50	< 50 HY,U	< 300
	12/09/03	< 50	< 50	< 300
	08/12/03	< 50	< 50	< 300
	06/03/03	< 50	< 50	< 300
	03/18/03	< 50	< 50 UJ	< 300 UJ
	12/11/02	< 50	< 50 UJ	< 300 UJ
DUP1211021A	12/11/02	< 50	< 50	< 300
	08/30/02	< 50	< 50	< 300
	06/05/02	< 50	< 50	< 300
DUP0605021B	06/05/02	< 50	< 50	< 300
979GW115CL	06/05/02	< 50	< 50 UJ	< 300
	03/13/02	< 50	< 50	< 300
	11/29/01	< 50	< 50	< 300
	08/29/01	< 50	84 [2] Y,NJ	< 300 [2]
979GW116				
(intermediate)	03/06/07	< 50	< 50	< 300
DUP0306071B	03/06/07	< 50	< 50	< 300
	03/14/06	< 50	< 50	< 300
DUP0314061A	03/14/06	< 50	< 50	< 300
	03/31/05	< 50	< 50	< 300
DUP0331052B	03/31/05	< 50	< 50	< 300
979GW116CL	03/31/05	< 50 U	< 50 U	< 300 U
	03/16/04	< 50	< 50	< 300
	12/09/03	< 50	< 50	< 300
	08/18/03	< 50	< 50	< 300
	06/04/03	< 50	< 50	< 300
DUP0604031A	06/04/03	< 50	< 50	< 300
	03/19/03	< 50	< 50	< 300
DUP0319031A	03/19/03	< 50	< 50	< 300

Table A-1-3
Results of TPH Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
979GW116 (intermediate)	12/10/02	< 50	< 50	< 300
	09/05/02	< 50	< 50	< 300
DUP0905022C	09/05/02	< 50	< 50	< 300
979GW116CL	09/05/02	< 50	< 50	< 300
	06/06/02	< 50	< 50	< 300
	03/14/02	< 50	< 50	< 300
DUP0314021A	03/14/02	< 50	< 50	< 300
979GW116CL	03/14/02	< 50	< 50	< 300
	11/29/01	< 50	< 50	< 300
DUP1129011A	11/29/01	< 50	< 50	< 300
979GW116CL	11/29/01	< 50	< 50	< 500
	08/29/01	< 50	50 [2] Y,NJ	< 300 [2]
979GW117 (deep)	03/05/07	< 50	< 50	< 300
	03/13/06	< 50	< 50	< 300
	03/17/05	< 50	< 50	< 300
	03/12/04	< 50	< 50 HY,U	< 300
	12/08/03	< 50	< 50	< 300
	08/12/03	< 50	< 50	< 300
	06/03/03	< 50	< 50	< 300
	03/18/03	< 50	< 50	< 300
	12/10/02	< 50	< 50	< 300
	08/30/02	< 50	< 50	< 300
	05/31/02	< 50	< 50	< 300
	03/13/02	< 50	< 50	< 300
	11/29/01	< 50	< 50	< 300
	08/29/01	< 50	< 50 [2]	< 300 [2]

Notes

1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.

2 - TPH analysis was not run using the silica gel cleanup method 3630A, although it was marked on the chain of custody.

H - Heavier hydrocarbons contributed to the quantitation

L - Lighter hydrocarbons contributed to the quantitation

Y - Sample exhibits fuel pattern which does not resemble standard

NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

ndp - Hydrocarbon reported does not match the pattern of the diesel standard.

µg/L - micrograms per liter

NA - Not analyzed

TPH - Total petroleum hydrocarbons

CL suffix denotes a quality control duplicate sample was sent to the control laboratory.

Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.

Table 11 in the main report identifies current and historical data qualifiers.

Table A-1-4
Groundwater Elevation Summary
Building 900s Area
Presidio of San Francisco, California

Well ID	Date	Tidal Cycle	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
Shallow Monitoring Wells						
937GW06	02/26/07	--	5.38	11.05	5.67	MW
	08/14/06	--	5.64	11.05	5.41	MW
	05/22/06	--	5.86	11.05	5.19	MW
	03/06/06	--	4.53	11.05	6.52	MW
	11/28/05	--	6.30	11.05	4.75	MW
	08/29/05	--	5.56	11.05	5.49	MW
	05/23/05	--	5.58	11.05	5.47	MW
	03/14/05	--	5.02	11.05	6.03	MW
	12/13/04	--	4.68	11.05	6.37	MW
	08/09/04	--	6.08	11.05	4.97	MW
	05/24/04	--	6.18	11.05	4.87	MW
	03/08/04	--	5.69	11.05	5.36	MW
	12/01/03	--	5.85	11.05	5.20	MW
	08/11/03	Low	6.47	11.05	4.58	MW
	06/02/03	Low	6.50	11.05	4.55	MW
	03/10/03	Low	6.29	11.05	4.76	MW
	12/02/02	Low	6.13	11.05	4.92	MW
	08/26/02	Low	6.67	11.05	4.38	MW
	05/28/02	Low	6.67	11.05	4.38	MW
	03/04/02	Low	5.93	11.05	5.12	MW
	11/26/01	Low	6.27	11.05	4.78	MW
	11/26/01	High	5.83	11.05	5.22	MW
	08/27/01	Low	6.67	11.05	4.38	MW
	08/27/01	High	6.70	11.05	4.35	MW
	05/08/01	Low	6.75	11.05	4.30	MW
	05/08/01	High	6.55	11.05	4.50	MW
937GW07 [2]	02/26/07	--	8.52	13.94	5.42	MW
	08/14/06	--	8.79	13.94	5.15	MW
	05/22/06	--	8.87	13.94	5.07	MW
	03/06/06	--	7.62	13.94	6.32	MW
	11/28/05	--	9.28	13.94	4.66	MW
	08/29/05	--	8.84	13.94	5.10	MW
	05/23/05	--	8.76	13.94	5.18	MW
	03/14/05	--	8.10	13.94	5.84	MW
	12/13/04	--	7.92	13.94	6.02	MW
	08/09/04	--	9.27	13.94	4.67	MW
	05/24/04	--	9.11	13.94	4.83	MW
	03/08/04	--	8.70	13.94	5.24	MW
	12/01/03	--	9.02	13.94	4.92	MW
	08/11/03	Low	9.31	13.94	4.63	MW
	06/02/03	Low	9.37	13.94	4.57	MW
	03/10/03	Low	9.41	13.94	4.53	MW
	12/02/02	Low	8.95	13.94	4.99	MW
	08/26/02	Low	9.71	13.94	4.23	MW
	05/28/02	Low	9.53	13.94	4.41	MW
	03/04/02	Low	9.12	13.94	4.82	MW
	11/26/01	Low	9.13	13.94	4.81	MW
	11/26/01	High	9.04	13.94	4.90	MW
	08/27/01	Low	9.84	13.94	4.10	MW
	08/27/01	High	9.85	13.94	4.09	MW
	05/08/01	Low	9.76	13.94	4.18	MW
	05/08/01	High	9.71	13.94	4.23	MW

Table A-1-4
Groundwater Elevation Summary
Building 900s Area
Presidio of San Francisco, California

Well ID	Date	Tidal Cycle	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
937GW12	02/26/07	--	2.45	10.34	7.89	MW
	08/14/06	--	2.49	10.34	7.85	MW
	05/22/06	--	6.63	10.34	3.71	MW
	03/06/06	--	2.30	10.34	8.04	MW
	11/28/05	--	3.61	10.34	6.73	MW
	08/29/05	--	2.23	10.34	8.11	MW
	05/23/05	--	2.63	10.34	7.71	MW
	03/14/05	--	1.93	10.34	8.41	MW
	12/13/04	--	2.69	10.34	7.65	MW
	08/09/04	--	3.05	10.34	7.29	MW
	05/24/04	--	2.90	10.34	7.44	MW
	03/08/04	--	2.75	10.34	7.59	MW
	12/01/03	--	4.67	10.34	5.67	MW
	08/11/03	Low	5.25	10.34	5.09	MW
	06/02/03	Low	5.39	10.34	4.95	MW
	03/10/03	Low	5.19	10.34	5.15	MW
	12/02/02	Low	5.02	10.34	5.32	MW
	08/26/02	Low	5.59	10.34	4.75	MW
	05/28/02	Low	5.50	10.34	4.84	MW
	03/04/02	Low	4.95	10.34	5.39	MW
	11/26/01	Low	5.29	10.34	5.05	MW
	11/26/01	High	5.16	10.34	5.18	MW
	08/27/01	Low	5.85	10.34	4.49	MW
	08/27/01	High	5.89	10.34	4.45	MW
	05/08/01	Low	5.67	10.34	4.67	MW
	05/08/01	High	5.82	10.34	4.52	MW
937GW15	02/26/07	--	6.95	12.90	5.95	MW
	08/14/06	--	7.07	12.90	5.83	MW
	05/22/06	--	7.29	12.90	5.61	MW
	03/06/06	--	6.06	12.90	6.84	MW
	11/28/05	--	7.77	12.90	5.13	MW
	08/29/05	--	7.02	12.90	5.88	MW
	05/23/05	--	7.10	12.90	5.80	MW
	03/14/05	--	6.27	12.90	6.63	MW
	12/13/04	--	6.33	12.90	6.57	MW
	08/09/04	--	7.49	12.90	5.41	MW
	05/24/04	--	7.47	12.90	5.43	MW
	03/08/04	--	6.92	12.90	5.98	MW
	12/01/03	--	7.83	12.90	5.07	MW
	08/11/03	Low	8.16	12.90	4.74	MW
	06/02/03	Low	8.20	12.90	4.70	MW
	03/10/03	Low	8.00	12.90	4.90	MW
	12/02/02	Low	7.85	12.90	5.05	MW
	08/26/02	Low	8.39	12.90	4.51	MW
	05/28/02	Low	8.35	12.90	4.55	MW
	03/04/02	Low	7.78	12.90	5.12	MW
	11/26/01	Low	7.98	12.90	4.92	MW
	11/26/01	High	7.82	12.90	5.08	MW
	08/27/01	Low	8.58	12.90	4.32	MW
	08/27/01	High	8.58	12.90	4.32	MW
	05/08/01	Low	8.68	12.90	4.22	MW
	05/08/01	High	8.61	12.90	4.29	MW

Table A-1-4
Groundwater Elevation Summary
Building 900s Area
Presidio of San Francisco, California

Well ID	Date	Tidal Cycle	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
937GW35	02/26/07	--	5.97	11.64	5.67	MW
	08/14/06	--	7.09	11.64	4.55	MW
	05/22/06	--	6.90	11.64	4.74	MW
	03/06/06	--	5.04	11.64	6.60	MW
	11/28/05	--	6.92	11.64	4.72	MW
	08/29/05	--	7.00	11.64	4.64	MW
	05/23/05	--	6.27	11.64	5.37	MW
	03/14/05	--	6.45	11.64	5.19	MW
	12/13/04	--	6.10	11.64	5.54	MW
	08/09/04	--	7.21	11.64	4.43	MW
	05/24/04	--	6.86	11.64	4.78	MW
	03/08/04	--	7.11	11.64	4.53	MW
	12/01/03	--	6.11	11.64	5.53	MW
	08/11/03	Low	6.96	11.64	4.68	MW
	06/02/03	Low	6.83	11.64	4.81	MW
	03/10/03	Low	6.56	11.64	5.08	MW
	12/02/02	Low	6.43	11.64	5.21	MW
	08/26/02	Low	7.41	11.64	4.23	MW
	05/28/02	Low	6.78	11.64	4.86	MW
	03/04/02	Low	6.13	11.64	5.51	MW
	11/26/01	Low	6.63	11.64	5.01	MW
	11/26/01	High	6.46	11.64	5.18	MW
	08/27/01	Low	7.43	11.64	4.21	MW
	08/27/01	High	7.43	11.64	4.21	MW
	05/08/01	Low	6.98	11.64	4.66	MW
	05/08/01	High	7.18	11.64	4.46	MW
937GW37	02/26/07	--	6.81	12.74	5.93	MW
	08/14/06	--	6.91	12.74	5.83	MW
	05/22/06	--	7.16	12.74	5.58	MW
	03/06/06	--	5.93	12.74	6.81	MW
	11/28/05	--	7.75	12.74	4.99	MW
	08/29/05	--	6.87	12.74	5.87	MW
	05/23/05	--	6.95	12.74	5.79	MW
	03/14/05	--	6.20	12.74	6.54	MW
	12/13/04	--	6.21	12.74	6.53	MW
	08/09/04	--	7.35	12.74	5.39	MW
	05/24/04	--	7.27	12.74	5.47	MW
	03/08/04	--	6.86	12.74	5.88	MW
	12/01/03	--	7.49	12.74	5.25	MW
	08/11/03	Low	8.07	12.74	4.67	MW
	06/02/03	Low	8.10	12.74	4.64	MW
	03/10/03	Low	7.92	12.74	4.82	MW
	12/02/02	Low	7.75	12.74	4.99	MW
	08/26/02	Low	8.30	12.74	4.44	MW
	05/28/02	Low	8.25	12.74	4.49	MW
	03/04/02	Low	7.64	12.74	5.10	MW
	11/26/01	Low	7.77	12.74	4.97	MW
	11/26/01	High	7.66	12.74	5.08	MW
	08/27/01	Low	8.34	12.74	4.40	MW
	08/27/01	High	8.43	12.74	4.31	MW
	05/08/01	Low	8.54	12.74	4.20	MW
	05/08/01	High	8.37	12.74	4.37	MW

Table A-1-4
Groundwater Elevation Summary
Building 900s Area
Presidio of San Francisco, California

Well ID	Date	Tidal Cycle	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
937GW101	02/26/07	--	6.18	11.81	5.63	MW
	08/14/06	--	6.35	11.81	5.46	MW
	05/22/06	--	6.58	11.81	5.23	MW
	03/06/06	--	5.33	11.81	6.48	MW
	11/28/05	--	7.02	11.81	4.79	MW
	08/29/05	--	6.28	11.81	5.53	MW
	05/23/05	--	6.34	11.81	5.47	MW
	03/14/05	--	5.76	11.81	6.05	MW
	12/13/04	--	5.35	11.81	6.46	MW
	08/09/04	--	6.77	11.81	5.04	MW
	05/24/04	--	6.83	11.81	4.98	MW
	03/08/04	--	6.35	11.81	5.46	MW
	12/01/03	--	6.65	11.81	5.16	MW
	08/11/03	Low	7.19	11.81	4.62	MW
	06/02/03	Low	7.21	11.81	4.60	MW
	03/10/03	Low	7.09	11.81	4.72	MW
	12/02/02	Low	6.88	11.81	4.93	MW
	08/26/02	Low	7.46	11.81	4.35	MW
	05/28/02	Low	7.43	11.81	4.38	MW
	03/04/02	Low	6.81	11.81	5.00	MW
	11/26/01	Low	7.04	11.81	4.77	MW
	11/26/01	High	6.65	11.81	5.16	MW
	08/27/01	Low	7.45	11.81	4.36	MW
	08/27/01	High	7.46	11.81	4.35	MW
937GW104	02/26/07	--	7.01	11.52	4.51	MW
	08/14/06	--	6.65	11.52	4.87	MW
	05/22/06	--	6.57	11.52	4.95	MW
	05/22/06	--	6.57	11.52	4.95	MW
	03/06/06	--	4.55	11.52	6.97	MW
	11/28/05	--	6.65	11.52	4.87	MW
	08/29/05	--	6.44	11.52	5.08	MW
	05/23/05	--	6.18	11.52	5.34	MW
	03/14/05	--	6.08	11.52	5.44	MW
	12/13/04	--	4.85	11.52	6.67	MW
	08/09/04	--	6.96	11.52	4.56	MW
	05/24/04	--	6.83	11.52	4.69	MW
	03/08/04	--	6.72	11.52	4.80	MW
	12/01/03	--	6.02	11.52	5.50	MW
	08/11/03	Low	6.75	11.52	4.77	MW
	06/02/03	Low	6.45	11.52	5.07	MW
	03/10/03	Low	6.98	11.52	4.54	MW
	12/02/02	Low	6.03	11.52	5.49	MW
	08/26/02	Low	7.26	11.52	4.26	MW
	05/28/02	Low	6.86	11.52	4.66	MW
	03/04/02	Low	6.47	11.52	5.05	MW
	11/26/01	Low	6.63	11.52	4.89	MW
	11/26/01	High	6.07	11.52	5.45	MW
	08/27/01	Low	7.00	11.52	4.52	MW
	08/27/01	High	7.05	11.52	4.47	MW
937GW106	02/26/07	--	9.56	15.20	5.64	MW
	08/14/06	--	10.10	15.20	5.10	MW
	05/22/06	--	10.11	15.20	5.09	MW
	03/06/06	--	8.53	15.20	6.67	MW
	11/28/05	--	10.26	15.20	4.94	MW
	08/29/05	--	10.23	15.20	4.97	MW
	05/23/05	--	9.60	15.20	5.60	MW

Table A-1-4
Groundwater Elevation Summary
Building 900s Area
Presidio of San Francisco, California

Well ID	Date	Tidal Cycle	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
937GW106	03/14/05	--	9.36	15.20	5.84	MW
	12/13/04	--	9.52	15.20	5.68	MW
	08/09/04	--	10.23	15.20	4.97	MW
	05/24/04	--	10.15	15.20	5.05	MW
	03/08/04	--	9.82	15.20	5.38	MW
	12/01/03	--	10.15	15.20	5.05	MW
	08/11/03	Low	10.22	15.20	4.98	MW
	06/02/03	Low	10.27	15.20	4.93	MW
	03/10/03	Low	9.13	15.20	6.07	MW
	12/02/02	Low	10.09	15.20	5.11	MW
	08/26/02	Low	10.37	15.20	4.83	MW
	05/28/02	Low	10.19	15.20	5.01	MW
	03/04/02	Low	8.83	15.20	6.37	MW
	11/26/01	Low	9.82	15.20	5.38	MW
	11/26/01	High	9.80	15.20	5.40	MW
	08/27/01	Low	10.37	15.20	4.83	MW
	08/27/01	High	10.39	15.20	4.81	MW
937GW108	02/26/07	--	4.89	12.11	7.22	MW
	08/14/06	--	4.84	12.11	7.27	MW
	05/22/06	--	5.69	12.11	6.42	MW
	03/06/06	--	4.07	12.11	8.04	MW
	11/28/05	--	6.81	12.11	5.30	MW
	08/29/05	--	5.20	12.11	6.91	MW
	05/23/05	--	5.34	12.11	6.77	MW
	03/14/05	--	4.36	12.11	7.75	MW
	12/13/04	--	5.41	12.11	6.70	MW
	08/09/04	--	6.67	12.11	5.44	MW
	05/24/04	--	6.72	12.11	5.39	MW
	03/08/04	--	5.64	12.11	6.47	MW
	12/01/03	--	6.86	12.11	5.25	MW
	08/11/03	Low	7.45	12.11	4.66	MW
	06/02/03	Low	7.44	12.11	4.67	MW
	03/10/03	Low	7.17	12.11	4.94	MW
	12/02/02	Low	7.25	12.11	4.86	MW
	08/26/02	Low	5.94	12.11	6.17	MW
	05/28/02	Low	7.68 [3]	12.11	4.43	MW
979GW109	02/26/07	--	6.00	10.62	4.62	MW
	08/14/06	--	6.35	10.62	4.27	MW
	05/22/06	--	6.58	10.62	4.04	MW
	03/06/06	--	5.39	10.62	5.23	MW
	11/28/05	--	6.46	10.62	4.16	MW
	08/29/05	--	6.17	10.62	4.45	MW
	05/23/05	--	6.18	10.62	4.44	MW
	03/14/05	--	6.05	10.62	4.57	MW
	12/13/04	--	5.55	10.62	5.07	MW
	08/09/04	--	6.54	10.62	4.08	MW
	05/24/04	--	6.59	10.62	4.03	MW
	03/08/04	--	6.51	10.62	4.11	MW
	12/01/03	--	5.65	10.62	4.97	MW
	08/11/03	Low	6.58	10.62	4.04	MW
	06/02/03	Low	6.69	10.62	3.93	MW
	03/10/03	Low	6.18	10.62	4.44	MW
	12/02/02	Low	6.07	10.62	4.55	MW
	08/26/02	Low	6.91	10.62	3.71	MW
	05/28/02	Low	6.75	10.62	3.87	MW

Table A-1-4
Groundwater Elevation Summary
Building 900s Area
Presidio of San Francisco, California

Well ID	Date	Tidal Cycle	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
979GW109	03/04/02	Low	5.96	10.62	4.66	MW
	11/26/01	Low	6.63	10.62	3.99	MW
	11/26/01	High	6.02	10.62	4.60	MW
	08/27/01	Low	6.57	10.62	4.05	MW
	08/27/01	High	6.57	10.62	4.05	MW
979GW112	02/26/07	--	15.53	19.72	4.19	MW
	08/14/06	--	15.40	19.72	4.32	MW
	05/22/06	--	15.47	19.72	4.25	MW
	03/06/06	--	14.73	19.72	4.99	MW
	11/28/05	--	15.80	19.72	3.92	MW
	08/29/05	--	15.28	19.72	4.44	MW
	05/23/05	--	14.87	19.72	4.85	MW
	03/14/05	--	15.15	19.72	4.57	MW
	12/13/04	--	14.65	19.72	5.07	MW
	08/09/04	--	15.61	19.72	4.11	MW
	05/24/04	--	15.75	19.72	3.97	MW
	03/08/04	--	15.52	19.72	4.20	MW
	12/01/03	--	15.06	19.72	4.66	MW
	08/11/03	Low	15.85	19.72	3.87	MW
	06/02/03	Low	15.98	19.72	3.74	MW
	03/10/03	Low	14.95	19.72	4.77	MW
	12/02/02	Low	15.60	19.72	4.12	MW
	08/26/02	Low	16.03	19.72	3.69	MW
	05/28/02	Low	15.97	19.72	3.75	MW
	03/04/02	Low	14.65	19.72	5.07	MW
	11/26/01	Low	15.77	19.72	3.95	MW
	11/26/01	High	15.25	19.72	4.47	MW
	08/27/01	Low	15.73	19.72	3.99	MW
	08/27/01	High	15.74	19.72	3.98	MW
979GW113	02/26/07	--	6.27	10.41	4.14	MW
	08/14/06	--	6.23	10.41	4.18	MW
	05/22/06	--	6.61	10.41	3.80	MW
	03/06/06	--	6.10	10.41	4.31	MW
	11/28/05	--	6.68	10.41	3.73	MW
	08/29/05	--	6.01	10.41	4.40	MW
	05/23/05	--	6.76	10.41	3.65	MW
	03/14/05	--	6.41	10.41	4.00	MW
	12/13/04	--	5.97	10.41	4.44	MW
	08/09/04	--	6.63	10.41	3.78	MW
	05/24/04	--	6.80	10.41	3.61	MW
	03/08/04	--	6.87	10.41	3.54	MW
	12/01/03	--	5.68	10.41	4.73	MW
	08/11/03	Low	6.98	10.41	3.43	MW
	06/02/03	Low	7.12	10.41	3.29	MW
	03/10/03	Low	6.68	10.41	3.73	MW
	12/02/02	Low	6.29	10.41	4.12	MW
	08/26/02	Low	7.25	10.41	3.16	MW
	05/28/02	Low	7.15	10.41	3.26	MW
	03/04/02	Low	6.28	10.41	4.13	MW
	11/26/01	Low	7.03	10.41	3.38	MW
	11/26/01	High	5.80	10.41	4.61	MW
	08/27/01	Low	6.41	10.41	4.00	MW
	08/27/01	High	6.41	10.41	4.00	MW

Table A-1-4
Groundwater Elevation Summary
Building 900s Area
Presidio of San Francisco, California

Well ID	Date	Tidal Cycle	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
979GW115	02/26/07	--	8.02	12.26	4.24	MW
	08/14/06	--	8.07	12.26	4.19	MW
	05/22/06	--	7.99	12.26	4.27	MW
	03/06/06	--	7.45	12.26	4.81	MW
	11/28/05	--	8.25	12.26	4.01	MW
	08/29/05	--	7.96	12.26	4.30	MW
	05/23/05	--	7.97	12.26	4.29	MW
	03/14/05	--	7.76	12.26	4.50	MW
	12/13/04	--	7.54	12.26	4.72	MW
	08/09/04	--	8.30	12.26	3.96	MW
	05/24/04	--	8.26	12.26	4.00	MW
	03/08/04	--	8.24	12.26	4.02	MW
	12/01/03	--	7.66	12.26	4.60	MW
	08/11/03	Low	8.28	12.26	3.98	MW
	06/02/03	Low	8.49	12.26	3.77	MW
	03/10/03	Low	7.97	12.26	4.29	MW
	12/02/02	Low	7.93	12.26	4.33	MW
	08/26/02	Low	8.61	12.26	3.65	MW
	05/28/02	Low	8.45	12.26	3.81	MW
	03/04/02	Low	7.65	12.26	4.61	MW
	11/26/01	Low	8.27	12.26	3.99	MW
	11/26/01	High	8.03	12.26	4.23	MW
	08/27/01	Low	8.42	12.26	3.84	MW
	08/27/01	High	8.45	12.26	3.81	MW
CGGW01	08/09/04	Low	NM	10.53	NM	MW
	05/24/04	Low	NM	10.53	NM	MW
	03/08/04	Low	3.55	10.53	6.98	MW
	08/11/03	Low	5.43	10.53	5.10	MW
	06/02/03	Low	5.53	10.53	5.00	MW
	03/10/03	Low	5.33	10.53	5.20	MW
	12/02/02	Low	5.12	10.53	5.41	MW
	08/26/02	Low	5.68	10.53	4.85	MW
	05/28/02	Low	5.63	10.53	4.90	MW
	03/04/02	Low	5.10	10.53	5.43	MW
	11/26/01	Low	5.09	10.53	5.44	MW
	11/26/01	High	5.06	10.53	5.47	MW
	08/27/01	Low	5.90	10.53	4.63	MW
	08/27/01	High	5.89	10.53	4.64	MW
	05/08/01	Low	5.93	10.53	4.60	MW
	05/08/01	High	5.92	10.53	4.61	MW
CGGW02	08/09/04	Low	NM	9.87	NM	MW
	05/24/04	Low	NM	9.87	NM	MW
	03/08/04	Low	NM	9.87	NM	MW
	08/11/03	Low	5.02	9.87	4.85	MW
	06/02/03	Low	5.16	9.87	4.71	MW
	03/10/03	Low	5.20	9.87	4.67	MW

Table A-1-4
Groundwater Elevation Summary
Building 900s Area
Presidio of San Francisco, California

Well ID	Date	Tidal Cycle	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
CGGW02	12/02/02	Low	4.70	9.87	5.17	MW
	08/26/02	Low	5.21	9.87	4.66	MW
	05/28/02	Low	5.27	9.87	4.60	MW
	03/04/02	Low	4.94	9.87	4.93	MW
	11/26/01	Low	4.88	9.87	4.99	MW
	11/26/01	High	4.87	9.87	5.00	MW
	08/27/01	Low	5.60	9.87	4.27	MW
	08/27/01	High	5.59	9.87	4.28	MW
	05/08/01	Low	5.48	9.87	4.39	MW
	05/08/01	High	5.55	9.87	4.32	MW
CGGW03	08/09/04	--	Not located	11.58	--	MW
	05/24/04	--	Not located	11.58	--	MW
	03/08/04	--	Not located	11.58	--	MW
	08/11/03	--	Not located	11.58	--	MW
	06/02/03	--	Not located	11.58	--	MW
	03/10/03	--	Not located	11.58	--	MW
	12/02/02	--	Not located	11.58	--	MW
	08/26/02	--	Not located	11.58	--	MW
	05/28/02	--	Not located	11.58	--	MW
	03/04/02	--	Not located	11.58	--	MW
	11/26/01	--	Not located	11.58	--	MW
	08/27/01	--	Not located	11.58	--	MW
	05/08/01	--	Not located	11.58	--	MW
Intermediate Monitoring Wells						
937GW42	02/26/07	--	5.35	10.62	5.27	MW
	08/14/06	--	5.20	10.62	5.42	MW
	05/22/06	--	5.67	10.62	4.95	MW
	03/06/06	--	4.90	10.62	5.72	MW
	11/28/05	--	6.18	10.62	4.44	MW
	08/29/05	--	5.06	10.62	5.56	MW
	05/23/05	--	5.10	10.62	5.52	MW
	03/14/05	--	4.78	10.62	5.84	MW
	12/13/04	--	4.17	10.62	6.45	MW
	08/09/04	--	5.67	10.62	4.95	MW
	05/24/04	--	5.88	10.62	4.74	MW
	03/08/04	--	5.40	10.62	5.22	MW
	12/01/03	--	5.75	10.62	4.87	MW
	08/11/03	Low	6.35	10.62	4.27	MW
	06/02/03	Low	6.11	10.62	4.51	MW
	03/10/03	Low	5.75	10.62	4.87	MW
	12/02/02	Low	6.06	10.62	4.56	MW
	08/26/02	Low	6.27	10.62	4.35	MW
	05/28/02	Low	6.50	10.62	4.12	MW
	03/04/02	Low	5.69	10.62	4.93	MW
	11/26/01	Low	6.14	10.62	4.48	MW
	11/26/01	High	5.12	10.62	5.50	MW

Table A-1-4
Groundwater Elevation Summary
Building 900s Area
Presidio of San Francisco, California

Well ID	Date	Tidal Cycle	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
937GW42	08/27/01	Low	6.27	10.62	4.35	MW
	08/27/01	High	6.36	10.62	4.26	MW
	05/08/01	Low	9.97	10.62	0.65	MW
	05/08/01	High	9.05	10.62	1.57	MW
937GW102	02/26/07	--	6.35	11.69	5.34	MW
	08/14/06	--	6.20	11.69	5.49	MW
	05/22/06	--	6.60	11.69	5.09	MW
	03/06/06	--	5.43	11.69	6.26	MW
	11/28/05	--	7.09	11.69	4.60	MW
	08/29/05	--	6.12	11.69	5.57	MW
	05/23/05	--	6.30	11.69	5.39	MW
	03/14/05	--	5.82	11.69	5.87	MW
	12/13/04	--	5.20	11.69	6.49	MW
	08/09/04	--	6.57	11.69	5.12	MW
	05/24/04	--	6.81	11.69	4.88	MW
	03/08/04	--	6.26	11.69	5.43	MW
	12/01/03	--	6.59	11.69	5.10	MW
	08/11/03	Low	7.30	11.69	4.39	MW
	06/02/03	Low	7.31	11.69	4.38	MW
	03/10/03	Low	7.03	11.69	4.66	MW
	12/02/02	Low	7.10	11.69	4.59	MW
	08/26/02	Low	7.47	11.69	4.22	MW
	05/28/02	Low	7.51	11.69	4.18	MW
	03/04/02	Low	6.80	11.69	4.89	MW
	11/26/01	Low	7.22	11.69	4.47	MW
	11/26/01	High	6.59	11.69	5.10	MW
	08/27/01	Low	7.38	11.69	4.31	MW
	08/27/01	High	7.41	11.69	4.28	MW
937GW105	02/26/07	--	5.40	11.50	6.10	MW
	08/14/06	--	6.40	11.50	5.10	MW
	05/22/06	--	7.18	11.50	4.32	MW
	03/06/06	--	6.21	11.50	5.29	MW
	11/28/05	--	7.61	11.50	3.89	MW
	08/29/05	--	6.45	11.50	5.05	MW
	05/23/05	--	6.57	11.50	4.93	MW
	03/14/05	--	6.47	11.50	5.03	MW
	12/13/04	--	4.95	11.50	6.55	MW
	08/09/04	--	6.71	11.50	4.79	MW
	05/24/04	--	7.35	11.50	4.15	MW
	03/08/04	--	6.55	11.50	4.95	MW
	12/01/03	--	6.57	11.50	4.93	MW
	08/11/03	Low	7.52	11.50	3.98	MW
	06/02/03	Low	7.69	11.50	3.81	MW
	03/10/03	Low	7.30	11.50	4.20	MW
	12/02/02	Low	7.71	11.50	3.79	MW
	08/26/02	Low	7.62	11.50	3.88	MW
	05/28/02	Low	7.78	11.50	3.72	MW
	03/04/02	Low	6.84	11.50	4.66	MW
	11/26/01	Low	7.56	11.50	3.94	MW
	11/26/01	High	6.47	11.50	5.03	MW
	08/27/01	Low	7.19	11.50	4.31	MW
	08/27/01	High	7.27	11.50	4.23	MW

Table A-1-4
Groundwater Elevation Summary
Building 900s Area
Presidio of San Francisco, California

Well ID	Date	Tidal Cycle	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
937GW107	02/26/07	--	10.93	15.11	4.18	MW
	08/14/06	--	10.30	15.11	4.81	MW
	05/22/06	--	10.87	15.11	4.24	MW
	03/06/06	--	10.08	15.11	5.03	MW
	11/28/05	--	11.28	15.11	3.83	MW
	08/29/05	--	10.23	15.11	4.88	MW
	05/23/05	--	10.46	15.11	4.65	MW
	03/14/05	--	10.35	15.11	4.76	MW
	12/13/04	--	9.04	15.11	6.07	MW
	08/09/04	--	10.60	15.11	4.51	MW
	05/24/04	--	11.08	15.11	4.03	MW
	03/08/04	--	10.51	15.11	4.60	MW
	12/01/03	--	10.23	15.11	4.88	MW
	08/11/03	Low	11.26	15.11	3.85	MW
	06/02/03	Low	11.42	15.11	3.69	MW
	03/10/03	Low	10.66	15.11	4.45	MW
	12/02/02	Low	11.27	15.11	3.84	MW
	08/26/02	Low	11.37	15.11	3.74	MW
	05/28/02	Low	11.45	15.11	3.66	MW
	03/04/02	Low	10.39	15.11	4.72	MW
	11/26/01	Low	11.24	15.11	3.87	MW
	11/26/01	High	10.17	15.11	4.94	MW
	08/27/01	Low	10.83	15.11	4.28	MW
	08/27/01	High	10.87	15.11	4.24	MW
950GW108	02/26/07	--	7.61	11.60	3.99	MW
	08/14/06	--	6.82	11.60	4.78	MW
	05/22/06	--	7.54	11.60	4.06	MW
	03/06/06	--	6.78	11.60	4.82	MW
	11/28/05	--	8.07	11.60	3.53	MW
	08/29/05	--	6.90	11.60	4.70	MW
	05/23/05	--	6.98	11.60	4.62	MW
	03/14/05	--	7.05	11.60	4.55	MW
	12/13/04	--	5.50	11.60	6.10	MW
	08/09/04	--	7.18	11.60	4.42	MW
	05/24/04	--	7.75	11.60	3.85	MW
	03/08/04	--	7.13	11.60	4.47	MW
	12/01/03	--	6.90	11.60	4.70	MW
	08/11/03	Low	7.88	11.60	3.72	MW
	06/02/03	Low	8.03	11.60	3.57	MW
	03/10/03	Low	7.33	11.60	4.27	MW
	12/02/02	Low	8.00	11.60	3.60	MW
	08/26/02	Low	7.82	11.60	3.78	MW
	05/28/02	Low	8.10	11.60	3.50	MW
	03/04/02	Low	7.04	11.60	4.56	MW
	11/26/01	Low	7.88	11.60	3.72	MW
	11/26/01	High	6.71	11.60	4.89	MW
	08/27/01	Low	7.32	11.60	4.28	MW
	08/27/01	High	7.40	11.60	4.20	MW

Table A-1-4
Groundwater Elevation Summary
Building 900s Area
Presidio of San Francisco, California

Well ID	Date	Tidal Cycle	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
979GW110	02/26/07	--	7.08	10.62	3.54	MW
	08/14/06	--	6.19	10.62	4.43	MW
	05/22/06	--	9.91	10.62	0.71	MW
	03/06/06	--	6.50	10.62	4.12	MW
	11/28/05	--	7.41	10.62	3.21	MW
	08/29/05	--	6.12	10.62	4.50	MW
	05/23/05	--	6.48	10.62	4.14	MW
	03/14/05	--	6.57	10.62	4.05	MW
	12/13/04	--	4.74	10.62	5.88	MW
	08/09/04	--	6.40	10.62	4.22	MW
	05/24/04	--	7.14	10.62	3.48	MW
	03/08/04	--	6.54	10.62	4.08	MW
	12/01/03	--	5.76	10.62	4.86	MW
	08/11/03	Low	7.15	10.62	3.47	MW
	06/02/03	Low	7.29	10.62	3.33	MW
	03/10/03	Low	6.67	10.62	3.95	MW
	12/02/02	Low	7.33	10.62	3.29	MW
	08/26/02	Low	7.08	10.62	3.54	MW
	05/28/02	Low	7.43	10.62	3.19	MW
	03/04/02	Low	6.41	10.62	4.21	MW
	11/26/01	Low	7.17	10.62	3.45	MW
	11/26/01	High	5.75	10.62	4.87	MW
	08/27/01	Low	6.41	10.62	4.21	MW
	08/27/01	High	6.45	10.62	4.17	MW
979GW111R	02/26/07	--	15.47	19.69	4.22	MW
	08/14/06	--	15.34	19.69	4.35	MW
	05/22/06	--	15.40	19.69	4.29	MW
	03/06/06	--	14.68	19.69	5.01	MW
	11/28/05	--	15.78	19.69	3.91	MW
	08/29/05	--	15.21	19.69	4.48	MW
	05/23/05	--	14.84	19.69	4.85	MW
	03/14/05	--	15.13	19.69	4.56	MW
	12/13/04	--	14.55	19.69	5.14	MW
	08/09/04	--	15.54	19.69	4.15	MW
	05/24/04	--	15.72	19.69	3.97	MW
	03/08/04	--	15.46	19.69	4.23	MW
	12/01/03	--	15.02	19.69	4.67	MW
	08/11/03	Low	15.79	19.69	3.90	MW
	06/02/03	Low	15.67	19.69	4.02	MW
	03/10/03	Low	14.90	19.69	4.79	MW
	12/02/02	Low	15.55	19.69	4.14	MW
	08/26/02	Low	15.98	19.69	3.71	MW
	05/28/02	Low	15.92	19.69	3.77	MW
979GW114	02/26/07	--	6.86	10.53	3.67	MW
	08/14/06	--	6.55	10.53	3.98	MW
	05/22/06	--	6.47	10.53	4.06	MW
	03/06/06	--	6.34	10.53	4.19	MW
	11/28/05	--	7.05	10.53	3.48	MW
	08/29/05	--	6.23	10.53	4.30	MW
	05/23/05	--	6.57	10.53	3.96	MW
	03/14/05	--	6.40	10.53	4.13	MW
	12/13/04	--	5.04	10.53	5.49	MW
	08/09/04	--	6.36	10.53	4.17	MW
	05/24/04	--	6.93	10.53	3.60	MW
	03/08/04	--	6.65	10.53	3.88	MW

Table A-1-4
Groundwater Elevation Summary
Building 900s Area
Presidio of San Francisco, California

Well ID	Date	Tidal Cycle	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
979GW114	12/01/03	--	5.75	10.53	4.78	MW
	08/11/03	Low	7.01	10.53	3.52	MW
	06/02/03	Low	7.08	10.53	3.45	MW
	03/10/03	Low	6.64	10.53	3.89	MW
	12/02/02	Low	6.90	10.53	3.63	MW
	08/26/02	Low	7.00	10.53	3.53	MW
	05/28/02	Low	7.26	10.53	3.27	MW
	03/04/02	Low	6.33	10.53	4.20	MW
	11/26/01	Low	6.90	10.53	3.63	MW
	11/26/01	High	6.14	10.53	4.39	MW
	08/27/01	Low	6.71	10.53	3.82	MW
	08/27/01	High	6.66	10.53	3.87	MW
979GW116	02/26/07	--	7.95	12.19	4.24	MW
	08/14/06	--	8.00	12.19	4.19	MW
	05/22/06	--	7.94	12.19	4.25	MW
	03/06/06	--	7.40	12.19	4.79	MW
	11/28/05	--	8.23	12.19	3.96	MW
	08/29/05	--	7.89	12.19	4.30	MW
	05/23/05	--	7.90	12.19	4.29	MW
	03/14/05	--	7.74	12.19	4.45	MW
	12/13/04	--	7.45	12.19	4.74	MW
	08/09/04	--	8.22	12.19	3.97	MW
	05/24/04	--	8.24	12.19	3.95	MW
	03/08/04	--	8.19	12.19	4.00	MW
	12/01/03	--	7.60	12.19	4.59	MW
	08/11/03	Low	8.25	12.19	3.94	MW
	06/02/03	Low	8.45	12.19	3.74	MW
	03/10/03	Low	7.90	12.19	4.29	MW
	12/02/02	Low	7.90	12.19	4.29	MW
	08/26/02	Low	8.56	12.19	3.63	MW
	05/28/02	Low	8.41	12.19	3.78	MW
	03/04/02	Low	7.59	12.19	4.60	MW
	11/26/01	Low	8.24	12.19	3.95	MW
	11/26/01	High	7.93	12.19	4.26	MW
	08/27/01	Low	8.34	12.19	3.85	MW
	08/27/01	High	8.37	12.19	3.82	MW
Deep Monitoring Wells						
937GW32R	02/26/07	--	5.38	10.60	5.22	MW
	08/14/06	--	5.10	10.60	5.50	MW
	05/22/06	--	5.62	10.60	4.98	MW
	03/06/06	--	4.45	10.60	6.15	MW
	11/28/05	--	6.05	10.60	4.55	MW
	08/29/05	--	5.14	10.60	5.46	MW
	05/23/05	--	5.31	10.60	5.29	MW
	03/14/05	--	4.54	10.60	6.06	MW
	12/13/04	--	4.01	10.60	6.59	MW
	08/09/04	--	5.58	10.60	5.02	MW
	05/24/04	--	5.83	10.60	4.77	MW
	03/08/04	--	5.12	10.60	5.48	MW
	12/01/03	--	5.57	10.60	5.03	MW
	08/11/03	Low	6.26	10.60	4.34	MW
	06/02/03	Low	6.31	10.60	4.29	MW

Table A-1-4
Groundwater Elevation Summary
Building 900s Area
Presidio of San Francisco, California

Well ID	Date	Tidal Cycle	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
937GW32R	03/10/03	Low	5.86	10.60	4.74	MW
	12/02/02	Low	6.10	10.60	4.50	MW
	08/26/02	Low	6.37	10.60	4.23	MW
	05/28/02	Low	6.47	10.60	4.13	MW
	03/04/02	Low	5.69	10.60	4.91	MW
	11/26/01	Low	6.19	10.60	4.41	MW
	11/26/01	High	5.50	10.60	5.10	MW
	08/27/01	Low	6.18	10.60	4.42	MW
	08/27/01	High	6.24	10.60	4.36	MW
	05/08/01	Low	6.08	10.60	4.52	MW
	05/08/01	High	6.72	10.60	3.88	MW
937GW38	02/26/07	--	3.85	10.23	6.38	MW
	08/14/06	--	4.06	10.23	6.17	MW
	05/22/06	--	4.68	10.23	5.55	MW
	03/06/06	--	4.00	10.23	6.23	MW
	11/28/05	--	4.13	10.23	6.10	MW
	08/29/05	--	4.15	10.23	6.08	MW
	05/23/05	--	4.44	10.23	5.79	MW
	03/14/05	--	3.65	10.23	6.58	MW
	12/13/04	--	3.75	10.23	6.48	MW
	08/09/04	--	4.36	10.23	5.87	MW
	05/24/04	--	4.53	10.23	5.70	MW
	03/08/04	--	3.86	10.23	6.37	MW
	12/01/03	--	4.73	10.23	5.50	MW
	08/11/03	Low	5.35	10.23	4.88	MW
	06/02/03	Low	5.20	10.23	5.03	MW
	03/10/03	Low	4.85	10.23	5.38	MW
	12/02/02	Low	5.00	10.23	5.23	MW
	08/26/02	Low	5.64	10.23	4.59	MW
	05/28/02	Low	5.10	10.23	5.13	MW
	03/04/02	Low	4.60	10.23	5.63	MW
	11/26/01	Low	4.91	10.23	5.32	MW
	11/26/01	High	4.30	10.23	5.93	MW
	08/27/01	Low	4.69	10.23	5.54	MW
	08/27/01	High	4.70	10.23	5.53	MW
	05/08/01	Low	5.12	10.23	5.11	MW
	05/08/01	High	4.83	10.23	5.40	MW
937GW39	02/26/07	--	7.88	12.49	4.61	MW
	08/14/06	--	7.46	12.49	5.03	MW
	05/22/06	--	8.02	12.49	4.47	MW
	03/06/06	--	6.88	12.49	5.61	MW
	11/28/05	--	8.38	12.49	4.11	MW
	08/29/05	--	7.54	12.49	4.95	MW
	05/23/05	--	7.66	12.49	4.83	MW
	03/14/05	--	7.37	12.49	5.12	MW
	12/13/04	--	6.23	12.49	6.26	MW
	08/09/04	--	7.84	12.49	4.65	MW
	05/24/04	--	8.22	12.49	4.27	MW
	03/08/04	--	7.40	12.49	5.09	MW
	12/01/03	--	7.64	12.49	4.85	MW

Table A-1-4
Groundwater Elevation Summary
Building 900s Area
Presidio of San Francisco, California

Well ID	Date	Tidal Cycle	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
937GW39	08/11/03	Low	8.56	12.49	3.93	MW
	06/02/03	Low	8.73	12.49	3.76	MW
	03/10/03	Low	8.26	12.49	4.23	MW
	12/02/02	Low	8.66	12.49	3.83	MW
	08/26/02	Low	8.75	12.49	3.74	MW
	05/28/02	Low	8.74	12.49	3.75	MW
	03/04/02	Low	8.06	12.49	4.43	MW
	11/26/01	Low	8.72	12.49	3.77	MW
	11/26/01	High	7.77	12.49	4.72	MW
	08/27/01	Low	8.37	12.49	4.12	MW
	08/27/01	High	8.47	12.49	4.02	MW
	05/08/01	Low	9.15	12.49	3.34	MW
	05/08/01	High	8.17	12.49	4.32	MW
937GW103	02/26/07	--	6.13	11.56	5.43	MW
	08/14/06	--	6.05	11.56	5.51	MW
	05/22/06	--	6.39	11.56	5.17	MW
	03/06/06	--	5.50	11.56	6.06	MW
	11/28/05	--	6.88	11.56	4.68	MW
	08/29/05	--	5.93	11.56	5.63	MW
	05/23/05	--	6.08	11.56	5.48	MW
	03/14/05	--	5.62	11.56	5.94	MW
	12/13/04	--	5.00	11.56	6.56	MW
	08/09/04	--	6.38	11.56	5.18	MW
	05/24/04	--	6.63	11.56	4.93	MW
	03/08/04	--	6.09	11.56	5.47	MW
	12/01/03	--	6.44	11.56	5.12	MW
	08/11/03	Low	7.15	11.56	4.41	MW
	06/02/03	Low	7.15	11.56	4.41	MW
	03/10/03	Low	6.82	11.56	4.74	MW
	12/02/02	Low	6.95	11.56	4.61	MW
	08/26/02	Low	7.30	11.56	4.26	MW
	05/28/02	Low	7.35	11.56	4.21	MW
	03/04/02	Low	6.59	11.56	4.97	MW
	11/26/01	Low	7.06	11.56	4.50	MW
	11/26/01	High	6.42	11.56	5.14	MW
	08/27/01	Low	7.16	11.56	4.40	MW
	08/27/01	High	7.15	11.56	4.41	MW
979GW117	02/26/07	--	8.98	12.17	3.19	MW
	08/14/06	--	9.83	12.17	2.34	MW
	05/22/06	--	11.07	12.17	1.10	MW
	03/06/06	--	7.96	12.17	4.21	MW
	11/28/05	--	8.25	12.17	3.92	MW
	08/29/05	--	8.32	12.17	3.85	MW
	05/23/05	--	8.58	12.17	3.59	MW
	03/14/05	--	7.84	12.17	4.33	MW
	12/13/04	--	7.97	12.17	4.20	MW
	08/09/04	--	8.63	12.17	3.54	MW
	05/24/04	--	9.41	12.17	2.76	MW
	03/08/04	--	9.65	12.17	2.52	MW
	12/01/03	--	10.05	12.17	2.12	MW
	08/11/03	Low	8.64	12.17	3.53	MW
	06/02/03	Low	10.73	12.17	1.44	MW
	03/18/03	Low	9.19 [4]	12.17	2.98	MW

Table A-1-4
Groundwater Elevation Summary
Building 900s Area
Presidio of San Francisco, California

Well ID	Date	Tidal Cycle	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
979GW117	12/02/02	Low	9.16	12.17	3.01	MW
	08/26/02	Low	9.83	12.17	2.34	MW
	05/28/02	Low	9.39	12.17	2.78	MW
	03/04/02	Low	8.94	12.17	3.23	MW
	11/26/01	Low	8.50	12.17	3.67	MW
	11/26/01	High	9.67	12.17	2.50	MW
	08/27/01	Low	8.61	12.17	3.56	MW
	08/27/01	High	8.54	12.17	3.63	MW

Notes
1- All depth to water measurements are an average of three measurements recorded in the field.
2 - Top of casing elevation is approximate due to damaged casing.
3 - This depth to water (7.68 feet) was measured on 4 June 2002 during sampling.
4 - This depth to water (9.19 feet) was measured at approximately 10:30 AM on 18 March 2003 during sampling.
MW - Monitoring well
-- = Groundwater level measurements were not collected on a tidal schedule beginning with Fourth Quarter 2003.
NM - Not measured
feet PLLW - feet above Presidio Lower Low Water vertical datum.

Table A-1-5
Summary of Vertical Gradients at Well Clusters
Building 900s Area
Presidio of San Francisco, California

Well Cluster (WC)	Well ID	Groundwater Zone	Date	Groundwater Elevation [1] (feet PLLW)	Ground Surface Elevation (feet PLLW)	Depth to Screen Midpoint (feet bgs)	Screen Midpoint Elevation [2] (feet PLLW)	Shallow/Intermediate			Intermediate/Deep			Shallow/Deep		
								Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)	Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)	Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)
First Quarter 2007																
900WC-1	937GW06	Shallow	02/26/07	5.67	10.98	10.8	0.18	-0.32	-13.14	**0.024**	0.030	-10.590	**-0.003**	-0.290	-23.730	**0.012**
	937GW42	Intermediate	02/26/07	5.35	11.04	24.0	-12.96									
	937GW32R	Deep	02/26/07	5.38	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	02/26/07	6.18	11.81	10.0	1.81	0.17	-15.12	**-0.011**	-0.220	-15.130	**0.015**	-0.050	-30.250	**0.002**
	937GW102	Intermediate	02/26/07	6.35	11.69	25.0	-13.3									
	937GW103	Deep	02/26/07	6.13	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	02/26/07	8.02	12.56	10.0	2.56	-0.07	-15.00	**0.005**	1.030	-14.970	**-0.069**	0.960	-29.970	**-0.032**
	979GW116	Intermediate	02/26/07	7.95	12.56	25.0	-12.44									
	979GW117	Deep	02/26/07	8.98	12.59	40.0	-27.41									
Third Quarter 2006																
900WC-1	937GW06	Shallow	08/14/06	5.41	10.98	10.8	0.18	0.01	-13.14	**-0.001**	0.080	-10.590	**-0.008**	0.090	-23.730	**-0.004**
	937GW42	Intermediate	08/14/06	5.42	11.04	24.0	-12.96									
	937GW32R	Deep	08/14/06	5.50	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	08/14/06	5.46	11.81	10.0	1.81	0.03	-15.12	**-0.002**	0.020	-15.130	**-0.001**	0.050	-30.250	**-0.002**
	937GW102	Intermediate	08/14/06	5.49	11.69	25.0	-13.3									
	937GW103	Deep	08/14/06	5.51	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	08/14/06	4.19	12.56	10.0	2.56	0.00	-15.00	**0.000**	-1.850	-14.970	**0.124**	-1.850	-29.970	**0.062**
	979GW116	Intermediate	08/14/06	4.19	12.56	25.0	-12.44									
	979GW117	Deep	08/14/06	2.34	12.59	40.0	-27.41									
Second Quarter 2006																
900WC-1	937GW06	Shallow	05/22/06	5.86	10.98	10.8	0.18	-0.19	-13.14	**0.014**	-0.050	-10.590	**0.005**	-0.240	-23.730	**0.010**
	937GW42	Intermediate	05/22/06	5.67	11.04	24.0	-12.96									
	937GW32R	Deep	05/22/06	5.62	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	05/22/06	6.58	11.81	10.0	1.81	0.02	-15.12	**-0.001**	-0.210	-15.130	**0.014**	-0.190	-30.250	**0.006**
	937GW102	Intermediate	05/22/06	6.60	11.69	25.0	-13.3									
	937GW103	Deep	05/22/06	6.39	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	05/22/06	7.99	12.56	10.0	2.56	-0.05	-15.00	**0.003**	3.130	-14.970	**-0.209**	3.080	-29.970	**-0.103**
	979GW116	Intermediate	05/22/06	7.94	12.56	25.0	-12.44									
	979GW117	Deep	05/22/06	11.07	12.59	40.0	-27.41									
First Quarter 2006																
900WC-1	937GW06	Shallow	03/06/06	6.52	10.98	10.8	0.18	-0.80	-13.14	**0.061**	0.430	-10.590	**-0.041**	-0.370	-23.730	**0.016**
	937GW42	Intermediate	03/06/06	5.72	11.04	24.0	-12.96									
	937GW32R	Deep	03/06/06	6.15	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	03/06/06	6.48	11.81	10.0	1.81	-0.22	-15.12	**0.015**	-0.200	-15.130	**0.013**	-0.420	-30.250	**0.014**
	937GW102	Intermediate	03/06/06	6.26	11.69	25.0	-13.3									
	937GW103	Deep	03/06/06	6.06	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	03/06/06	4.81	12.56	10.0	2.56	-0.02	-15.00	**0.001**	-0.580	-14.970	**0.039**	-0.600	-29.970	**0.020**
	979GW116	Intermediate	03/06/06	4.79	12.56	25.0	-12.44									
	979GW117	Deep	03/06/06	4.21	12.59	40.0	-27.41									

Table A-1-5
Summary of Vertical Gradients at Well Clusters
Building 900s Area
Presidio of San Francisco, California

Well Cluster (WC)	Well ID	Groundwater Zone	Date	Groundwater Elevation [1] (feet PLLW)	Ground Surface Elevation (feet PLLW)	Depth to Screen Midpoint (feet bgs)	Screen Midpoint Elevation [2] (feet PLLW)	Shallow/Intermediate			Intermediate/Deep			Shallow/Deep		
								Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)	Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)	Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)
Fourth Quarter 2005																
900WC-1	937GW06	Shallow	11/28/05	4.75	10.98	10.8	0.18	-0.31	-13.14	**0.024**	0.110	-10.590	**-0.010**	-0.200	-23.730	**0.008**
	937GW42	Intermediate	11/28/05	4.44	11.04	24.0	-12.96									
	937GW32R	Deep	11/28/05	4.55	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	11/28/05	4.79	11.81	10.0	1.81	-0.19	-15.12	**0.013**	0.080	-15.130	**-0.005**	-0.110	-30.250	**0.004**
	937GW102	Intermediate	11/28/05	4.60	11.69	25.0	-13.3									
	937GW103	Deep	11/28/05	4.68	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	11/28/05	4.01	12.56	10.0	2.56	-0.05	-15.00	**0.003**	-0.040	-14.970	**0.003**	-0.090	-29.970	**0.003**
	979GW116	Intermediate	11/28/05	3.96	12.56	25.0	-12.44									
	979GW117	Deep	11/28/05	3.92	12.59	40.0	-27.41									
Third Quarter 2005																
900WC-1	937GW06	Shallow	08/29/05	5.49	10.98	10.8	0.18	0.07	-13.14	**-0.005**	-0.100	-10.590	**0.009**	-0.030	-23.730	**0.001**
	937GW42	Intermediate	08/29/05	5.56	11.04	24.0	-12.96									
	937GW32R	Deep	08/29/05	5.46	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	08/29/05	5.53	11.81	10.0	1.81	0.04	-15.12	**-0.003**	0.060	-15.130	**-0.004**	0.100	-30.250	**-0.003**
	937GW102	Intermediate	08/29/05	5.57	11.69	25.0	-13.3									
	937GW103	Deep	08/29/05	5.63	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	08/29/05	4.30	12.56	10.0	2.56	0.00	-15.00	**0.000**	-0.450	-14.970	**0.030**	-0.450	-29.970	**0.015**
	979GW116	Intermediate	08/29/05	4.30	12.56	25.0	-12.44									
	979GW117	Deep	08/29/05	3.85	12.59	40.0	-27.41									
Second Quarter 2005																
900WC-1	937GW06	Shallow	05/23/05	5.47	10.98	10.8	0.18	0.05	-13.14	**-0.004**	-0.230	-10.590	**0.022**	-0.180	-23.730	**0.008**
	937GW42	Intermediate	05/23/05	5.52	11.04	24.0	-12.96									
	937GW32R	Deep	05/23/05	5.29	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	05/23/05	5.47	11.81	10.0	1.81	-0.08	-15.12	**0.005**	0.090	-15.130	**-0.006**	0.010	-30.250	**0.000**
	937GW102	Intermediate	05/23/05	5.39	11.69	25.0	-13.3									
	937GW103	Deep	05/23/05	5.48	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	05/23/05	4.29	12.56	10.0	2.56	0.00	-15.00	**0.000**	-0.700	-14.970	**0.047**	-0.700	-29.970	**0.023**
	979GW116	Intermediate	05/23/05	4.29	12.56	25.0	-12.44									
	979GW117	Deep	05/23/05	3.59	12.59	40.0	-27.41									
First Quarter 2005																
900WC-1	937GW06	Shallow	03/14/05	6.03	10.98	10.8	0.18	-0.19	-13.14	**0.014**	0.220	-10.590	**-0.021**	0.030	-23.730	**-0.001**
	937GW42	Intermediate	03/14/05	5.84	11.04	24.0	-12.96									
	937GW32R	Deep	03/14/05	6.06	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	03/14/05	6.05	11.81	10.0	1.81	-0.18	-15.12	**0.012**	0.070	-15.130	**-0.005**	-0.110	-30.250	**0.004**
	937GW102	Intermediate	03/14/05	5.87	11.69	25.0	-13.3									
	937GW103	Deep	03/14/05	5.94	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	03/14/05	4.50	12.56	10.0	2.56	-0.05	-15.00	**0.003**	-0.120	-14.970	**0.008**	-0.170	-29.970	**0.006**
	979GW116	Intermediate	03/14/05	4.45	12.56	25.0	-12.44									
	979GW117	Deep	03/14/05	4.33	12.59	40.0	-27.41									

Table A-1-5
Summary of Vertical Gradients at Well Clusters
Building 900s Area
Presidio of San Francisco, California

Well Cluster (WC)	Well ID	Groundwater Zone	Date	Groundwater Elevation [1] (feet PLLW)	Ground Surface Elevation (feet PLLW)	Depth to Screen Midpoint (feet bgs)	Screen Midpoint Elevation [2] (feet PLLW)	Shallow/Intermediate			Intermediate/Deep			Shallow/Deep		
								Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)	Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)	Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)
Fourth Quarter 2004																
900WC-1	937GW06	Shallow	12/13/04	6.37	10.98	10.8	0.18	0.08	-13.14	**-0.006**	0.140	-10.590	**-0.013**	0.220	-23.730	**-0.009**
	937GW42	Intermediate	12/13/04	6.45	11.04	24.0	-12.96									
	937GW32R	Deep	12/13/04	6.59	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	12/13/04	6.46	11.81	10.0	1.81	0.03	-15.12	**-0.002**	0.070	-15.130	**-0.005**	0.100	-30.250	**-0.003**
	937GW102	Intermediate	12/13/04	6.49	11.69	25.0	-13.3									
	937GW103	Deep	12/13/04	6.56	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	12/13/04	4.72	12.56	10.0	2.56	0.02	-15.00	**-0.001**	-0.540	-14.970	**0.036**	-0.520	-29.970	**0.017**
	979GW116	Intermediate	12/13/04	4.74	12.56	25.0	-12.44									
	979GW117	Deep	12/13/04	4.20	12.59	40.0	-27.41									
Third Quarter 2004																
900WC-1	937GW06	Shallow	08/09/04	4.97	10.98	10.8	0.18	-0.02	-13.14	**0.002**	0.070	-10.590	**-0.007**	0.050	-23.730	**-0.002**
	937GW42	Intermediate	08/09/04	4.95	11.04	24.0	-12.96									
	937GW32R	Deep	08/09/04	5.02	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	08/09/04	5.04	11.81	10.0	1.81	0.08	-15.12	**-0.005**	0.060	-15.130	**-0.004**	0.140	-30.250	**-0.005**
	937GW102	Intermediate	08/09/04	5.12	11.69	25.0	-13.3									
	937GW103	Deep	08/09/04	5.18	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	08/09/04	3.96	12.56	10.0	2.56	0.01	-15.00	**-0.001**	-0.430	-14.970	**0.029**	-0.420	-29.970	**0.014**
	979GW116	Intermediate	08/09/04	3.97	12.56	25.0	-12.44									
	979GW117	Deep	08/09/04	3.54	12.59	40.0	-27.41									
Second Quarter 2004																
900WC-1	937GW06	Shallow	05/24/04	4.87	10.98	10.8	0.18	-0.13	-13.14	**0.010**	0.030	-10.590	**-0.003**	-0.100	-23.730	**0.004**
	937GW42	Intermediate	05/24/04	4.74	11.04	24.0	-12.96									
	937GW32R	Deep	05/24/04	4.77	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	05/24/04	4.98	11.81	10.0	1.81	-0.10	-15.12	**0.007**	0.050	-15.130	**-0.003**	-0.050	-30.250	**0.002**
	937GW102	Intermediate	05/24/04	4.88	11.69	25.0	-13.3									
	937GW103	Deep	05/24/04	4.93	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	05/24/04	4.00	12.56	10.0	2.56	-0.05	-15.00	**0.003**	-1.190	-14.970	**0.079**	-1.240	-29.970	**0.041**
	979GW116	Intermediate	05/24/04	3.95	12.56	25.0	-12.44									
	979GW117	Deep	05/24/04	2.76	12.59	40.0	-27.41									

Table A-1-5
Summary of Vertical Gradients at Well Clusters
Building 900s Area
Presidio of San Francisco, California

Well Cluster (WC)	Well ID	Groundwater Zone	Date	Groundwater Elevation [1] (feet PLLW)	Ground Surface Elevation (feet PLLW)	Depth to Screen Midpoint (feet bgs)	Screen Midpoint Elevation [2] (feet PLLW)	Shallow/Intermediate			Intermediate/Deep			Shallow/Deep		
								Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)	Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)	Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)
First Quarter 2004																
900WC-1	937GW06	Shallow	03/08/04	5.36	10.98	10.8	0.18	-0.14	-13.14	**0.011**	0.260	-10.590	**-0.025**	0.120	-23.730	**-0.005**
	937GW42	Intermediate	03/08/04	5.22	11.04	24.0	-12.96									
	937GW32R	Deep	03/08/04	5.48	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	03/08/04	5.46	11.81	10.0	1.81	-0.03	-15.12	**0.002**	0.040	-15.130	**-0.003**	0.010	-30.250	**0.000**
	937GW102	Intermediate	03/08/04	5.43	11.69	25.0	-13.3									
	937GW103	Deep	03/08/04	5.47	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	03/08/04	4.02	12.56	10.0	2.56	-0.02	-15.00	**0.001**	-1.480	-14.970	**0.099**	-1.500	-29.970	**0.050**
	979GW116	Intermediate	03/08/04	4.00	12.56	25.0	-12.44									
	979GW117	Deep	03/08/04	2.52	12.59	40.0	-27.41									
Fourth Quarter 2003																
900WC-1	937GW06	Shallow	12/01/03	5.20	10.98	10.8	0.18	-0.33	-13.14	**0.025**	0.160	-10.590	**-0.015**	-0.170	-23.730	**0.007**
	937GW42	Intermediate	12/01/03	4.87	11.04	24.0	-12.96									
	937GW32R	Deep	12/01/03	5.03	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	12/01/03	5.16	11.81	10.0	1.81	-0.06	-15.12	**0.004**	0.020	-15.130	**-0.001**	-0.040	-30.250	**0.001**
	937GW102	Intermediate	12/01/03	5.10	11.69	25.0	-13.3									
	937GW103	Deep	12/01/03	5.12	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	12/01/03	4.60	12.56	10.0	2.56	-0.01	-15.00	**0.001**	-2.470	-14.970	**0.165**	-2.480	-29.970	**0.083**
	979GW116	Intermediate	12/01/03	4.59	12.56	25.0	-12.44									
	979GW117	Deep	12/01/03	2.12	12.59	40.0	-27.41									
Third Quarter 2003, Low Tide																
900WC-1	937GW06	Shallow	08/11/03	4.58	10.98	10.8	0.18	-0.31	-13.14	**0.024**	0.070	-10.590	**-0.007**	-0.240	-23.730	**0.010**
	937GW42	Intermediate	08/11/03	4.27	11.04	24.0	-12.96									
	937GW32R	Deep	08/11/03	4.34	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	08/11/03	4.62	11.81	10.0	1.81	-0.23	-15.12	**0.015**	0.020	-15.130	**-0.001**	-0.210	-30.250	**0.007**
	937GW102	Intermediate	08/11/03	4.39	11.69	25.0	-13.3									
	937GW103	Deep	08/11/03	4.41	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	08/11/03	3.98	12.56	10.0	2.56	-0.04	-15.00	**0.003**	-0.410	-14.970	**0.027**	-0.450	-29.970	**0.015**
	979GW116	Intermediate	08/11/03	3.94	12.56	25.0	-12.44									
	979GW117	Deep	08/11/03	3.53	12.59	40.0	-27.41									

Table A-1-5
Summary of Vertical Gradients at Well Clusters
Building 900s Area
Presidio of San Francisco, California

Well Cluster (WC)	Well ID	Groundwater Zone	Date	Groundwater Elevation [1] (feet PLLW)	Ground Surface Elevation (feet PLLW)	Depth to Screen Midpoint (feet bgs)	Screen Midpoint Elevation [2] (feet PLLW)	Shallow/Intermediate			Intermediate/Deep			Shallow/Deep		
								Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)	Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)	Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)
Second Quarter 2003, Low Tide																
900WC-1	937GW06	Shallow	06/02/03	4.55	10.98	10.8	0.18	-0.04	-13.14	**0.003**	-0.220	-10.590	**0.021**	-0.260	-23.730	**0.011**
	937GW42	Intermediate	06/02/03	4.51	11.04	24.0	-12.96									
	937GW32R	Deep	06/02/03	4.29	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	06/02/03	4.60	11.81	10.0	1.81	-0.22	-15.12	**0.015**	0.030	-15.130	**-0.002**	-0.190	-30.250	**0.006**
	937GW102	Intermediate	06/02/03	4.38	11.69	25.0	-13.3									
	937GW103	Deep	06/02/03	4.41	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	06/02/03	3.77	12.56	10.0	2.56	-0.03	-15.00	**0.002**	-2.300	-14.970	**0.154**	-2.330	-29.970	**0.078**
	979GW116	Intermediate	06/02/03	3.74	12.56	25.0	-12.44									
	979GW117	Deep	06/02/03	1.44	12.59	40.0	-27.41									
First Quarter 2003, Low Tide																
900WC-1	937GW06	Shallow	03/10/03	4.76	10.98	10.8	0.18	0.11	-13.14	**-0.008**	-0.130	-10.590	**0.012**	-0.020	-23.730	**0.001**
	937GW42	Intermediate	03/10/03	4.87	11.04	24.0	-12.96									
	937GW32R	Deep	03/10/03	4.74	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	03/10/03	4.72	11.81	10.0	1.81	-0.06	-15.12	**0.004**	0.080	-15.130	**-0.005**	0.020	-30.250	**-0.001**
	937GW102	Intermediate	03/10/03	4.66	11.69	25.0	-13.3									
	937GW103	Deep	03/10/03	4.74	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	03/10/03	4.29	12.56	10.0	2.56	0.00	-15.00	**0.000**	-1.310	-14.970	**0.088**	-1.310	-29.970	**0.044**
	979GW116	Intermediate	03/10/03	4.29	12.56	25.0	-12.44									
	979GW117	Deep	03/18/03	2.98	12.59	40.0	-27.41									
Fourth Quarter 2002, Low Tide																
900WC-1	937GW06	Shallow	12/02/02	4.92	10.98	10.8	0.18	-0.36	-13.14	**0.027**	-0.060	-10.590	**0.006**	-0.420	-23.730	**0.018**
	937GW42	Intermediate	12/02/02	4.56	11.04	24.0	-12.96									
	937GW32R	Deep	12/02/02	4.5	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	12/02/02	4.93	11.81	10.0	1.81	-0.34	-15.12	**0.022**	0.020	-15.130	**-0.001**	-0.320	-30.250	**0.011**
	937GW102	Intermediate	12/02/02	4.59	11.69	25.0	-13.3									
	937GW103	Deep	12/02/02	4.61	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	12/02/02	4.33	12.56	10.0	2.56	-0.04	-15.00	**0.003**	-1.280	-14.970	**0.086**	-1.320	-29.970	**0.044**
	979GW116	Intermediate	12/02/02	4.29	12.56	25.0	-12.44									
	979GW117	Deep	12/02/02	3.01	12.59	40.0	-27.41									

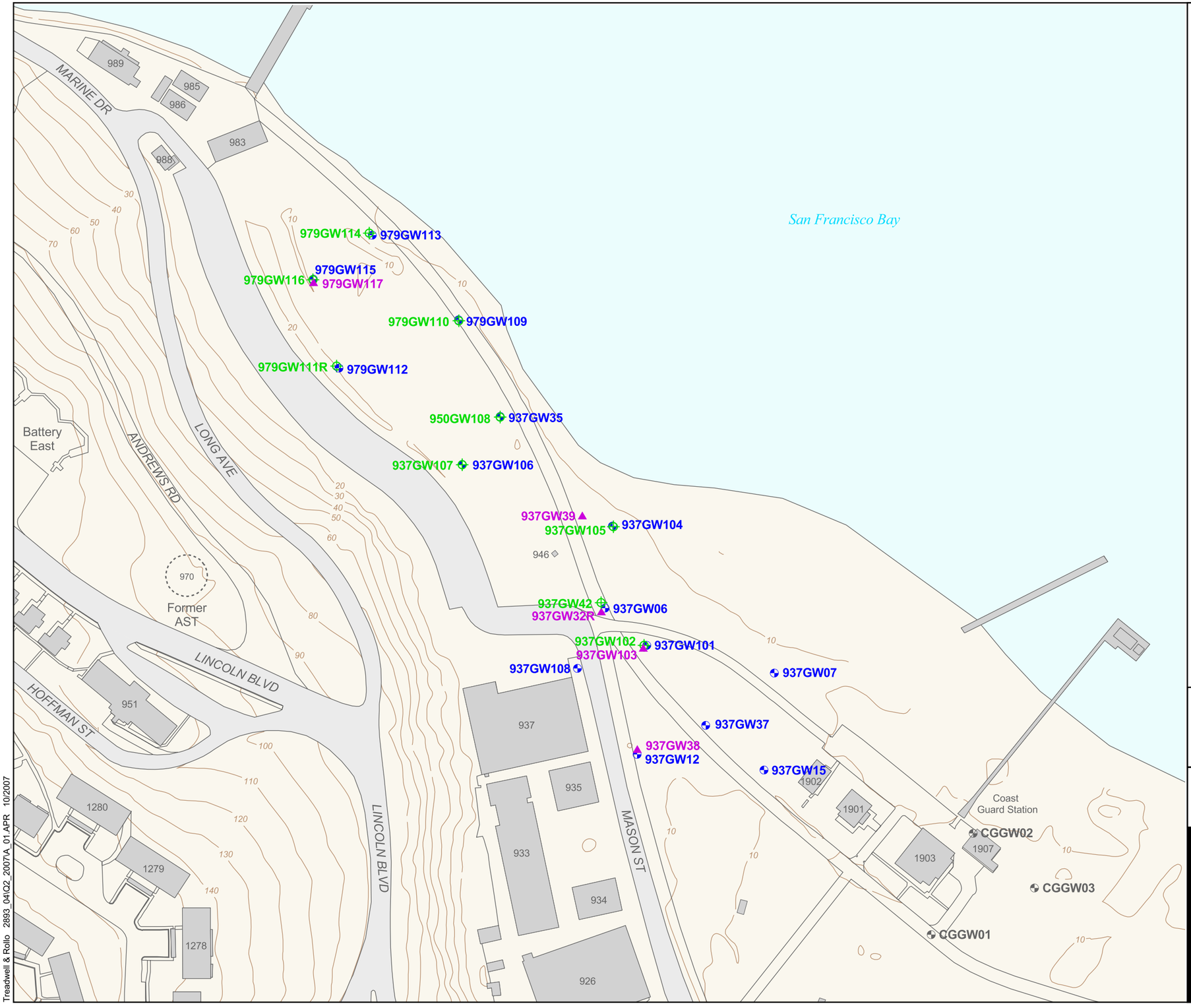
Table A-1-5
Summary of Vertical Gradients at Well Clusters
Building 900s Area
Presidio of San Francisco, California

Well Cluster (WC)	Well ID	Groundwater Zone	Date	Groundwater Elevation [1] (feet PLLW)	Ground Surface Elevation (feet PLLW)	Depth to Screen Midpoint (feet bgs)	Screen Midpoint Elevation [2] (feet PLLW)	Shallow/Intermediate			Intermediate/Deep			Shallow/Deep		
								Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)	Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)	Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)
Third Quarter 2002, Low Tide																
900WC-1	937GW06	Shallow	08/26/02	4.38	10.98	10.8	0.18	-0.03	-13.14	**0.002**	-0.120	-10.590	**0.011**	-0.150	-23.730	**0.006**
	937GW42	Intermediate	08/26/02	4.35	11.04	24.0	-12.96									
	937GW32R	Deep	08/26/02	4.23	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	08/26/02	4.35	11.81	10.0	1.81	-0.13	-15.12	**0.009**	0.040	-15.130	**-0.003**	-0.090	-30.250	**0.003**
	937GW102	Intermediate	08/26/02	4.22	11.69	25.0	-13.3									
	937GW103	Deep	08/26/02	4.26	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	08/26/02	3.65	12.56	10.0	2.56	-0.02	-15.00	**0.001**	-1.290	-14.970	**0.086**	-1.310	-29.970	**0.044**
	979GW116	Intermediate	08/26/02	3.63	12.56	25.0	-12.44									
	979GW117	Deep	08/26/02	2.34	12.59	40.0	-27.41									
Second Quarter 2002, Low Tide																
900WC-1	937GW06	Shallow	05/28/02	4.38	10.98	10.8	0.18	-0.26	-13.14	**0.020**	0.010	-10.590	**-0.001**	-0.250	-23.730	**0.011**
	937GW42	Intermediate	05/28/02	4.12	11.04	24.0	-12.96									
	937GW32R	Deep	05/28/02	4.13	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	05/28/02	4.38	11.81	10.0	1.81	-0.20	-15.12	**0.013**	0.030	-15.130	**-0.002**	-0.170	-30.250	**0.006**
	937GW102	Intermediate	05/28/02	4.18	11.69	25.0	-13.3									
	937GW103	Deep	05/28/02	4.21	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	05/28/02	3.81	12.56	10.0	2.56	-0.03	-15.00	**0.002**	-0.550	-14.970	**0.037**	-0.580	-29.970	**0.019**
	979GW116	Intermediate	05/28/02	3.78	12.56	25.0	-12.44									
	979GW117	Deep	05/28/02	3.23	12.59	40.0	-27.41									

Table A-1-5
Summary of Vertical Gradients at Well Clusters
Building 900s Area
Presidio of San Francisco, California

Well Cluster (WC)	Well ID	Groundwater Zone	Date	Groundwater Elevation [1] (feet PLLW)	Ground Surface Elevation (feet PLLW)	Depth to Screen Midpoint (feet bgs)	Screen Midpoint Elevation [2] (feet PLLW)	Shallow/Intermediate			Intermediate/Deep			Shallow/Deep		
								Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)	Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)	Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)
First Quarter 2002, Low Tide																
900WC-1	937GW06	Shallow	03/04/02	5.12	10.98	10.8	0.18	-0.19	-13.14	**0.014**	-0.020	-10.590	**0.002**	-0.210	-23.730	**0.009**
	937GW42	Intermediate	03/04/02	4.93	11.04	24.0	-12.96									
	937GW32R	Deep	03/04/02	4.91	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	03/04/02	5.00	11.81	10.0	1.81	-0.11	-15.12	**0.007**	0.080	-15.130	**-0.005**	-0.030	-30.250	**0.001**
	937GW102	Intermediate	03/04/02	4.89	11.69	25.0	-13.3									
	937GW103	Deep	03/04/02	4.97	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	03/04/02	4.61	12.56	10.0	2.56	-0.01	-15.00	**0.001**	-1.370	-14.970	**0.092**	-1.380	-29.970	**0.046**
	979GW116	Intermediate	03/04/02	4.60	12.56	25.0	-12.44									
	979GW117	Deep	03/04/02	3.23	12.59	40.0	-27.41									

Notes
feet PLLW - feet above Presidio Lower Low Water vertical datum.
bgs - below ground surface
1 - Groundwater elevations are presented in Table A-1-4.
2 - The screen midpoint elevations are calculated by subtracting the depth to the screen midpoint from the ground surface elevation (Montgomery Watson, 1999i).
3 - Vertical gradients are calculated by dividing the vertical difference in groundwater elevations between two adjacent wells screened in different vertical locations within the water-bearing zone by the vertical difference between the midpoint elevations of the two well screens (Table 3). The value for the shallower well is subtracted from that of the deeper well. A positive value indicates a downward vertical gradient, while a negative number indicates an upward vertical gradient. For the groundwater and screen midpoint elevations, the absolute difference between the elevations and depths are calculated.



LEGEND

- 937GW06 — Shallow Groundwater Monitoring Well
- 937GW42 — Intermediate Groundwater Monitoring Well
- 937GW103 — Deep Groundwater Monitoring Well
- CGGW01 — Adjacent Study Area Shallow Groundwater Well
- Topographic Contour (Contour Interval : 10 ft)
- 935 — Building and Number

Notes:
Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datum: (topography) North American Vertical Datum, NAVD88

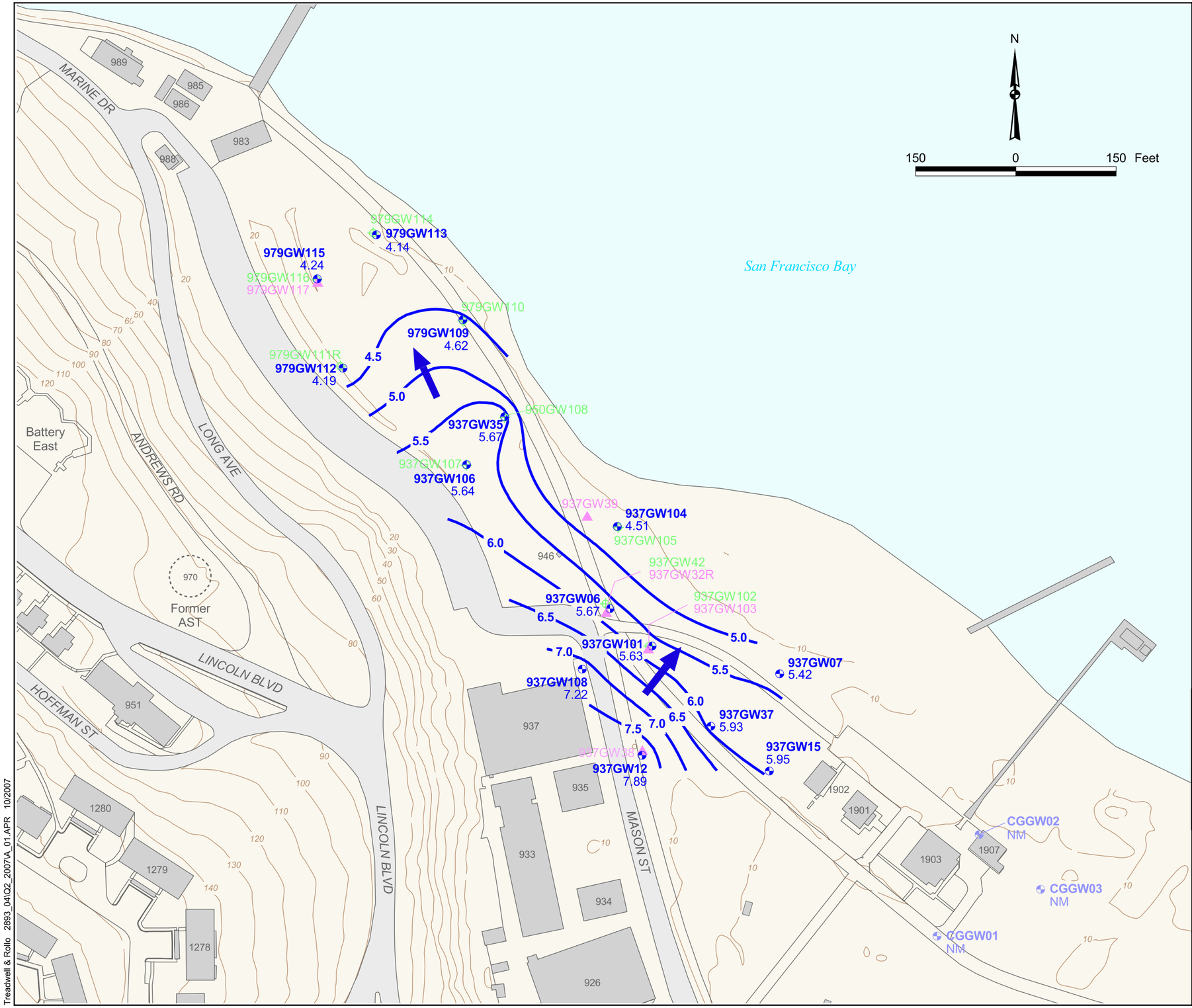
BUILDING 900s AREA SITE PLAN

Treadwell&Rollo

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
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October 2007

FIGURE A-1-1

Treadwell & Rollo 2893_04\Q2_2007\A_01.APR 10/2007



LEGEND

937GW06 5.67	Shallow Groundwater Monitoring Well February 2007 Groundwater Elevation
CGGW01	Adjacent Study Area Shallow Groundwater Well
NM	Not Measured. Well approved for removal from the groundwater monitoring program prior to the Second Quarter 2004.
937GW42	Intermediate Groundwater Monitoring Well
937GW103	Deep Groundwater Monitoring Well
	Approximate Direction of Groundwater Flow
	Groundwater Contour (Contour Interval : 0.5 ft)
	Topographic Contour (Contour Interval : 10 ft)
935	Building and Number

Notes:
Groundwater elevation data collected on 26 February 2007.

Monitoring wells in BOLD were used in groundwater contouring.

Elevation of well 937GW07 is approximate due to damage to top of casing.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

BUILDING 900s AREA
26 FEBRUARY 2007
GROUNDWATER ELEVATION MAP
SHALLOW ZONE

Treadwell&Rollo

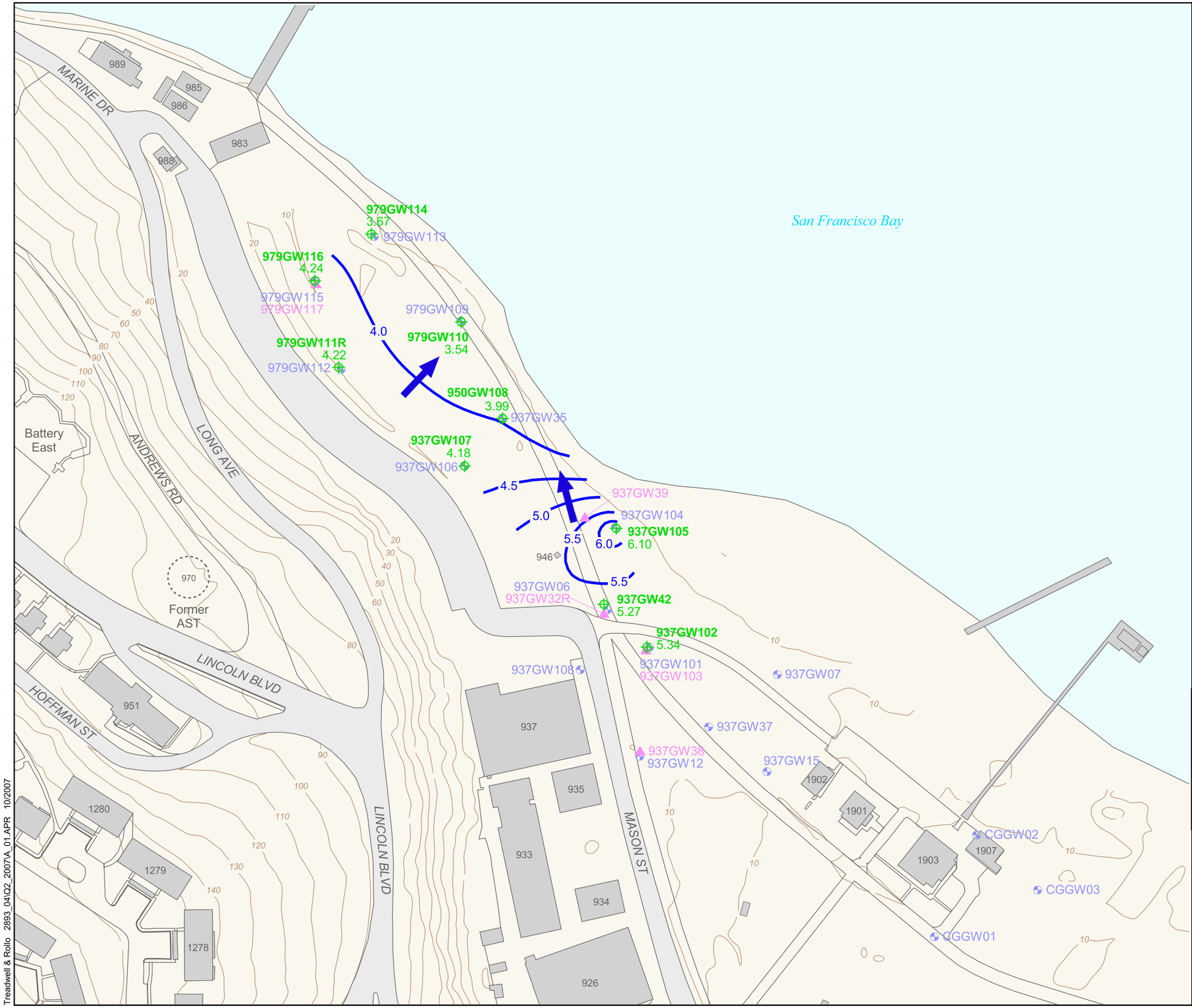
THE PRESIDIO TRUST

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San Francisco, CA
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415/561-5300
fax 415/561-5315

October 2007

FIGURE A-1-2

Treadwell & Rollo 2893_04\Q2_2007\A_01.APR 10/2007



N

150 0 150 Feet

LEGEND

- **937GW42** 5.27 — Intermediate Groundwater Monitoring Well, February 2007 Groundwater Elevation
- 937GW06 — Shallow Groundwater Monitoring Well
- 937GW103 — Deep Groundwater Monitoring Well
- Approximate Direction of Groundwater Flow
- Groundwater Contour (Contour Interval : 0.5 ft)
- Topographic Contour (Contour Interval : 10 ft)
- 935 — Building and Number

Notes:
Groundwater elevation data collected on 26 February 2007.

Monitoring wells in BOLD were used in groundwater contouring.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW)
(topography) North American Vertical Datum, NAVD88

BUILDING 900s AREA
26 FEBRUARY 2007
GROUNDWATER ELEVATION MAP
INTERMEDIATE ZONE

Treadwell&Rollo

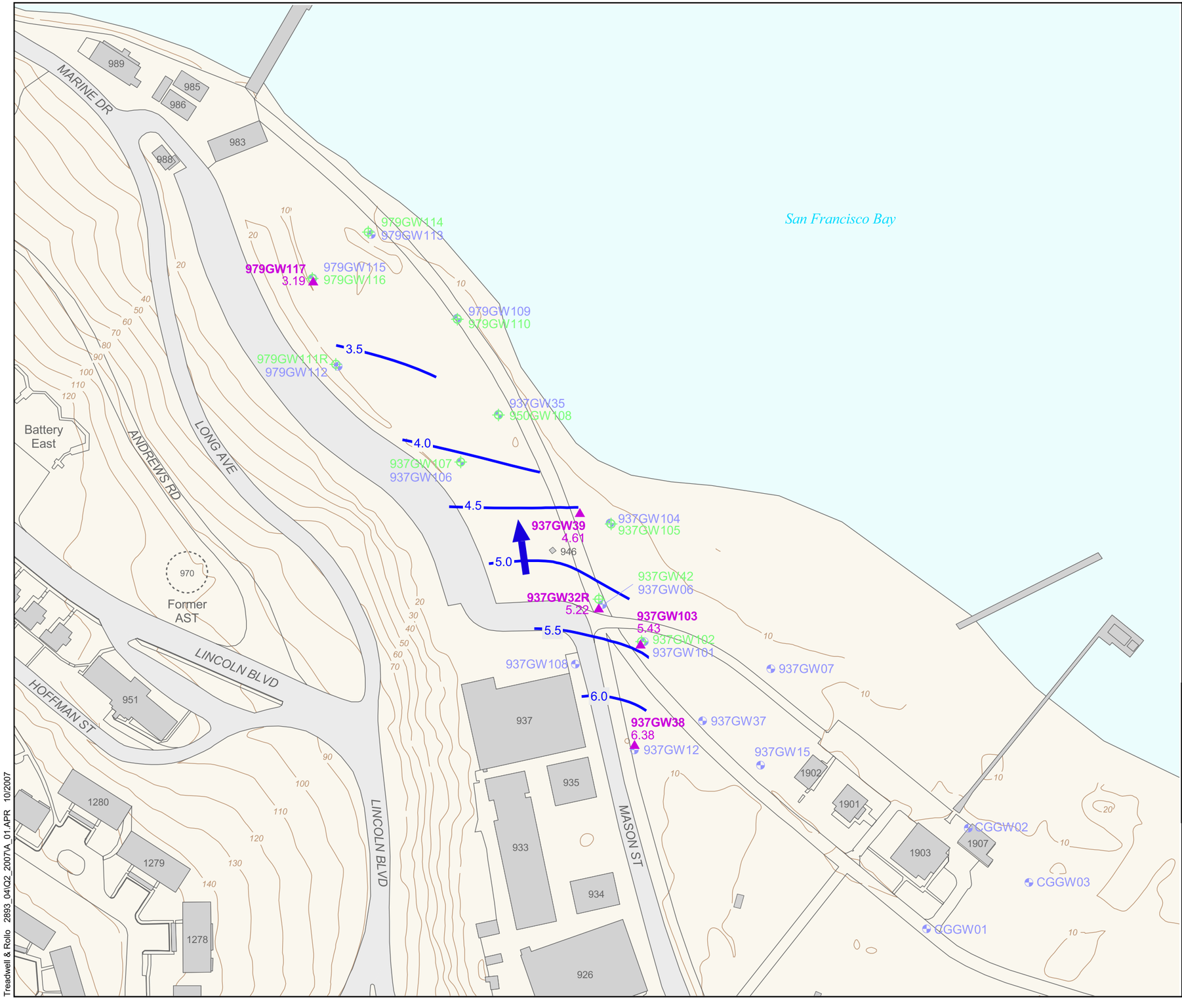
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October 2007

FIGURE A-1-3

Treadwell & Rollo 2893_04\Q2_2007\A_01.APR 10/2007



N

150 0 150 Feet

LEGEND

- **937GW103** 5.43 — Deep Groundwater Monitoring Well, February 2006 Groundwater Elevation
- 937GW06 — Shallow Groundwater Monitoring Well
- 937GW42 — Intermediate Groundwater Monitoring Well
- Approximate Direction of Groundwater Flow
- Groundwater Contour (Contour Interval : 0.5 ft)
- Topographic Contour (Contour Interval : 10 ft)
- 935 — Building and Number

Notes:
Groundwater elevation data collected on 26 February 2007.

Monitoring wells in BOLD were used in groundwater contouring.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW)
(topography) North American Vertical Datum, NAVD88

BUILDING 900s AREA
26 FEBRUARY 2007
GROUNDWATER ELEVATION MAP
DEEP ZONE

Treadwell&Rollo

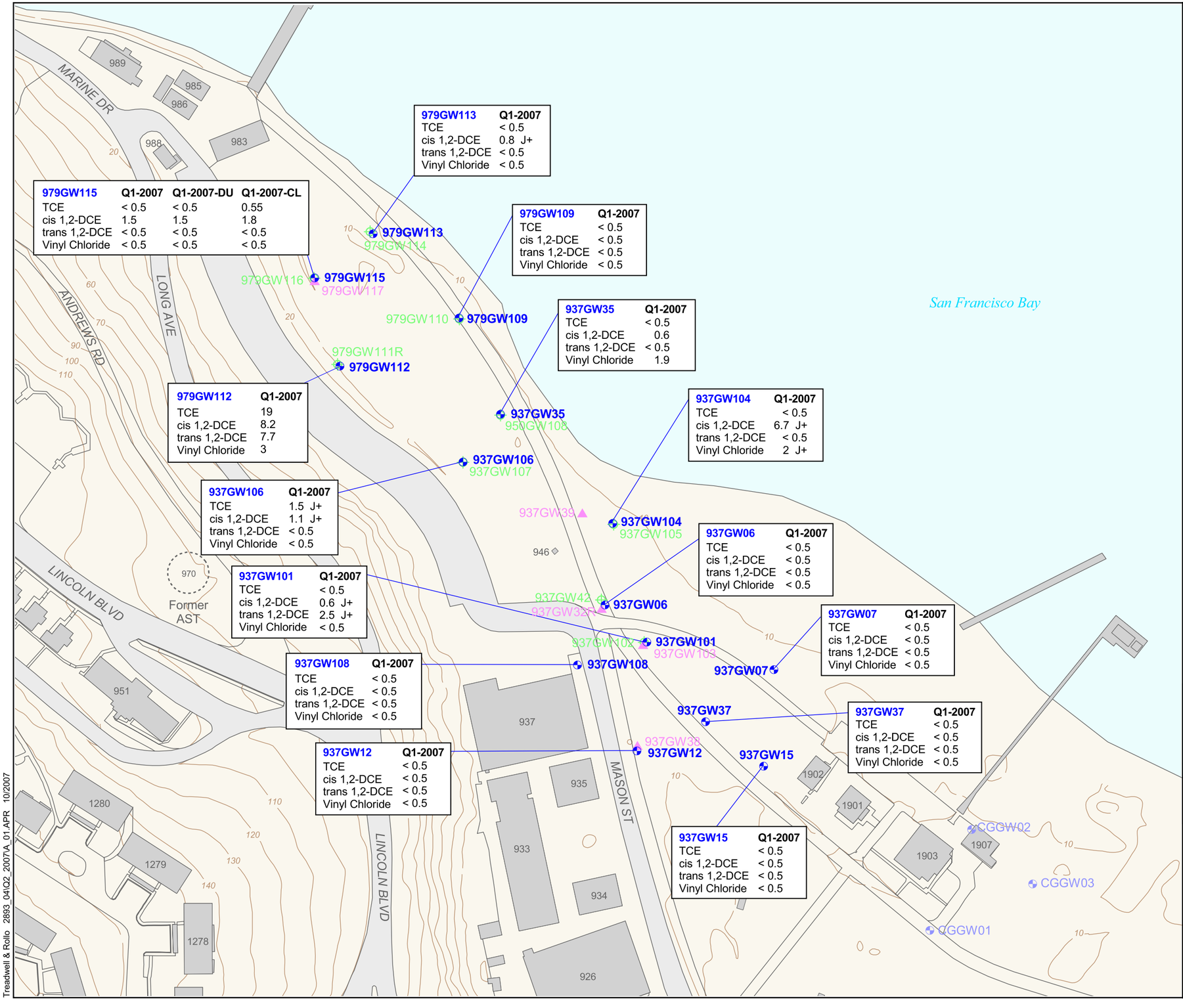
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FIGURE A-1-4

Treadwell & Rollo 2893_04\Q2_2007\A_01.APR 10/2007



Treadwell & Rollo 2893_04\Q2_2007\A_01.APR 10/2007

N

150 0 150 Feet

LEGEND

- 937GW06 — Shallow Groundwater Monitoring Well
- CGGW01 — Adjacent Shallow Groundwater Study Area Monitoring Well
- 937GW42 — Intermediate Groundwater Monitoring Well
- 937GW103 — Deep Groundwater Monitoring Well
- Topographic Contour (Contour Interval : 10 ft)
- 935 — Building and Number

Notes:
Building 900s Area monitoring wells were only scheduled to be sampled during the First Quarter 2007 in accordance to the proposed plan.

Groundwater concentration data in µg/L - micrograms per liter

CLEANUP LEVELS:
TCE - Trichloroethene - 81 µg/L
cis 1,2-DCE - cis 1,2-Dichloroethene - 140,000 µg/L
trans 1,2-DCE - trans 1,2 Dichloroethene - 140,000 µg/L
Vinyl Chloride - 525 µg/L

DU - Blind Duplicate
CL - Quality Control Duplicate

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datum: (topography) North American Vertical Datum, NAVD88

BUILDING 900s AREA
2007 CHEMICAL CONCENTRATION MAP
TCE, DCE, AND VINYL CHLORIDE IN SHALLOW GROUNDWATER

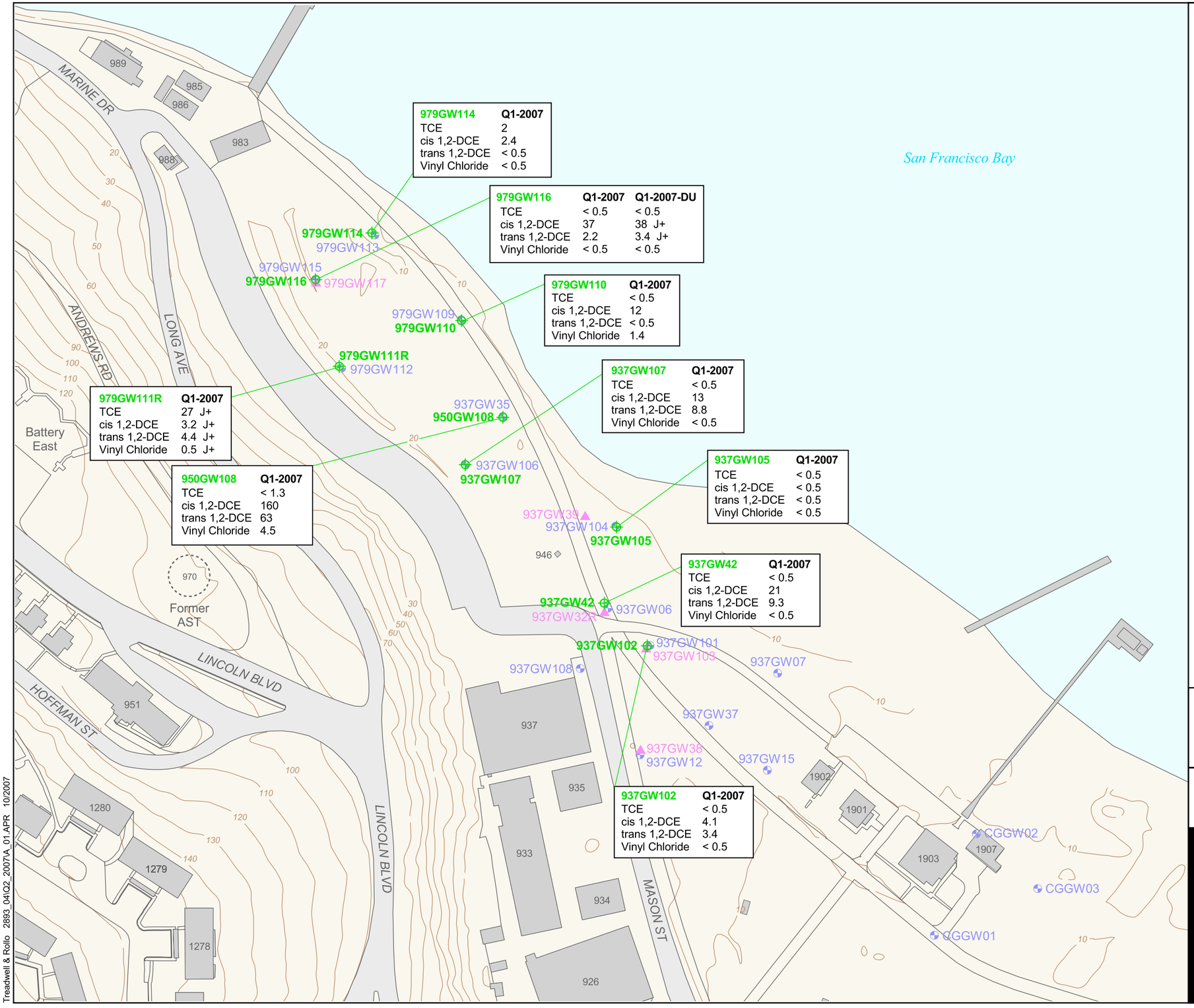
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FIGURE A-1-5



N

150 0 150 Feet

LEGEND

- 937GW42 — Intermediate Groundwater Monitoring Well
- 937GW06 — Shallow Groundwater Monitoring Well
- 937GW103 — Deep Groundwater Monitoring Well
- Topographic Contour (Contour Interval : 10 ft)
- 935 — Building and Number

Notes:
Building 900s Area monitoring wells were only scheduled to be sampled during the First Quarter 2007 in accordance to the proposed plan.

Groundwater concentration data in µg/L - micrograms per liter

CLEANUP LEVELS:
TCE - Trichloroethene - 81 µg/L
cis 1,2-DCE - cis 1,2-Dichloroethene - 140,000 µg/L
trans 1,2-DCE - trans 1,2 Dichloroethene - 140,000 µg/L
Vinyl Chloride - 525 µg/L

DU - Blind Duplicate

Refer to Table 11 for data qualifiers.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datum: (topography) North American Vertical Datum, NAVD88

BUILDING 900s AREA
2007 CHEMICAL CONCENTRATION MAP
TCE, DCE, AND VINYL CHLORIDE IN INTERMEDIATE GROUNDWATER

Treadwell&Rollo

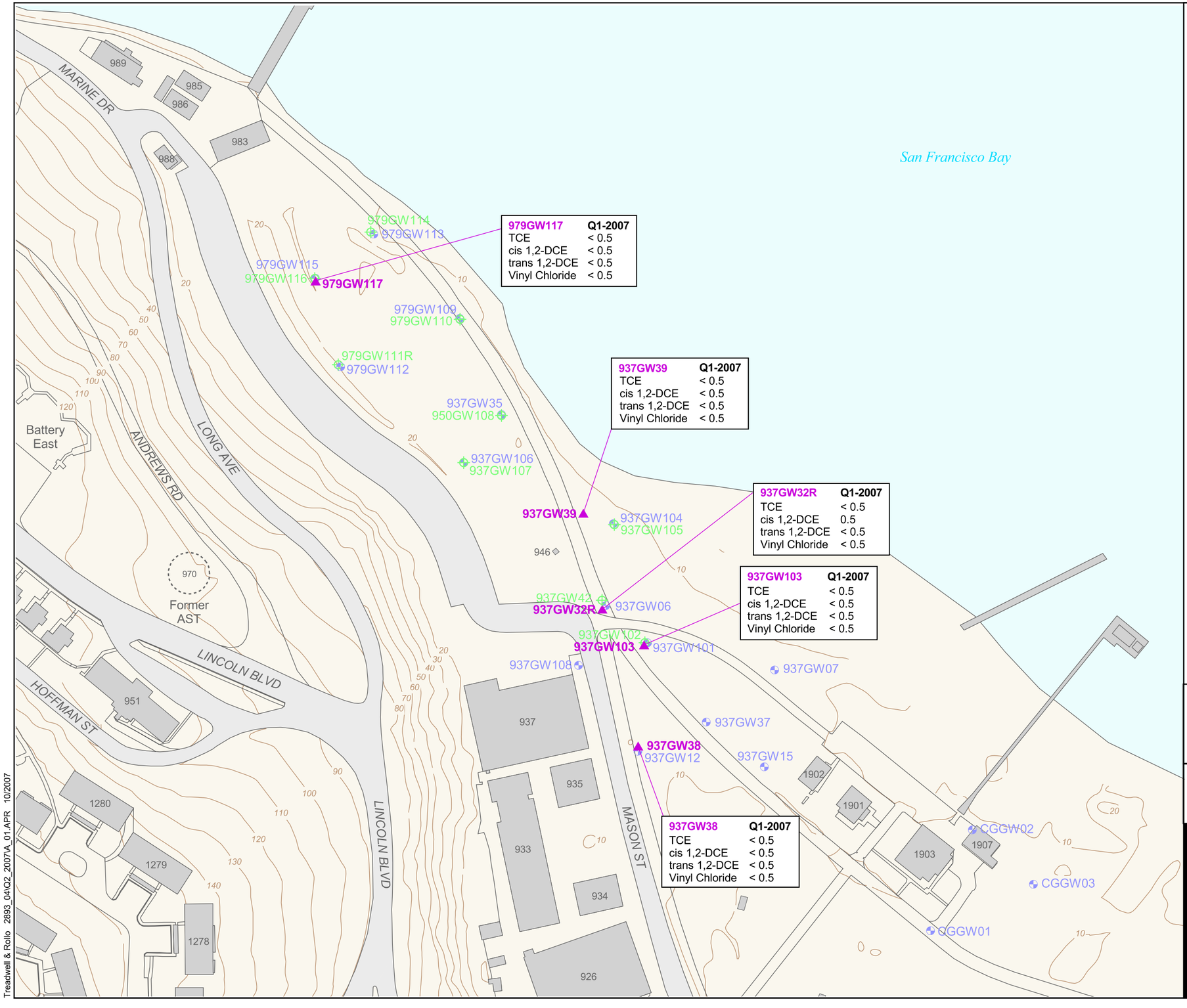
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FIGURE A-1-6

Treadwell & Rollo 2893_04\Q2_2007\A_01.APR 10/2007



N

150 0 150 Feet

LEGEND

- ▲ 937GW103 Deep Groundwater Monitoring Well
- 937GW06 Shallow Groundwater Monitoring Well
- 937GW42 Intermediate Groundwater Monitoring Well
- Topographic Contour (Contour Interval : 10 ft)
- 935 Building and Number

Notes:
Building 900s Area monitoring wells were only scheduled to be sampled during the First Quarter 2007 in accordance to the proposed plan.

Groundwater concentration data in µg/L - micrograms per liter

CLEANUP LEVELS:
TCE - Trichloroethene - 81 µg/L
cis 1,2-DCE - cis 1,2-Dichloroethene - 140,000 µg/L
trans 1,2-DCE - trans 1,2 Dichloroethene - 140,000 µg/L
Vinyl Chloride - 525 µg/L

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datum: (topography) North American Vertical Datum, NAVD88

BUILDING 900s AREA 2007 CHEMICAL CONCENTRATION MAP TCE, DCE, AND VINYL CHLORIDE IN DEEP GROUNDWATER

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FIGURE A-1-7

Treadwell & Rollo 2893_04\Q2_2007\A_01.APR 10/2007

First Quarter 2007

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Building 900S | Well No.: 937GW06

Project Number: 2897 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BC | Sampled by: BC | Date: 3/5/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 17.70

Depth to Water (WL, ft. below TOC): 5.65

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type disp.

[ ] Normal [ ] Pump \ Type

[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = CALCULATED PURGE VOLUME: gals

Total Purge Time: 12 min

Recharge Rate: | Purge Rate: .5 gal/min

ACTUAL PURGE VOLUME: 4 gals

VS: 5

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron Ultra Kwik 2100

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1058 / In. Rel			4.1				
1101 / 1G	7.6	14.7		933 mS		113	DTW=6.05
1104 / 2G	7.2	14.9		913		152	DTW=6.10
1107 / 3G	7.2	14.9		910		141	DTW=6.08
1110 / 4G	7.3	15.0		907		149	DTW=6.10
1115 /			2.9				
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments: | Purge water storage/disposal: [X] Drummed onsite [X] Other Baker

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 3/5/07 / 1115

Purging Equipment: Pump - Type | Bailer - Type disp | Other

Sample Filtered: Yes / (No) | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
937GW06	6 x 40 mL 4°C	CT	2194	
	1 x 1 L Amb			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area 900's Well No. 937GWO7

Project Number 2693 Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By D.Cornish Sampled by D.Cornish Date 3/8/07

WELL PURGING

PURGE VOLUME

Well casing diameter

[X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 15.60

Depth to Water (WL, ft. below TOC): 9.03

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged

[ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type

[ ] Normal [X] Pump \ Type Peri.

[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate Purge Rate 0.2gpm

2.5 gals ACTUAL PURGE VOLUME

DO YSI 550A

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type Myron L Ultrameter / Hach

Time	/ Liters or ~~Gallons~~	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	(ft.) DTW	Comments
822	/ initial	6.59	13.4	pre 0.26	798.2 NS	-	13.4		
826	/ 0.8	6.90	14.0	-	776.1	-	13.5	9.17	
830	/ 1.6	7.13	13.8	-	751.1	-	11.1	9.19	
834	/ 2.4	7.17	13.9	-	733.0	-	10.8	9.19	
	/			post 0.29					
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments Purge water storage/disposal [ ] Drummed onsite [X] Other Onsite Tank

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled 3/8/07 / 845

Purging Equipment Pump - Type Peristaltic Bailer - Type Other

Sample Filtered: Yes / (No) Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
937GWO7	6x 40ml Voa H/J	C+T	2199	
	1x 1L Amber UC		2202	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Building 900S | Well No.: 937GW12
Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: BP | Sampled by: BP | Date: 3/5/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 12.64
Depth to Water (WL, ft. below TOC): 2.70
Depth to free phase (FP, ft. below TOC):

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type: 2" Grundfos
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft):
[X] Near Bottom Depth (ft): 11'
[ ] Other

PURGE VOLUME CALCULATION

9.94 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 26.8 gals CALCULATED PURGE VOLUME

Total Purge Time:
Recharge Rate:
Purge Rate: 2 gpm

~~27~~ 9 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Horiba U10 Myron Ultra 1515

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1340	9	7.3	14.0		549 mS		18	
		well Dewatered @ 9 gallons						
1515	—	7.6	12.7	3.7	559		39	DTW: 2.70

Comments:
Purge water storage/disposal: [X] ~~Drummed on site~~ [X] Other Baker

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/5/07 / 1515

Purging Equipment: Pump - Type: ~~2" Grundfos~~ BP | Bailer - Type: dip | Other:

Sample Filtered: Yes / (No) | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
937GW12	6 x 40mL HCl	CTT	2194	
	1 x 1L Amb			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg. 900 | Well No.: 937GW15

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 3/8/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 11.39

Depth to Water (WL, ft. below TOC): 7.24

Depth to free phase (FP, ft. below TOC): X

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type

[ ] Normal [X] Pump \ Type: Peri-Pump

[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft): 10'

[X] Near Bottom Depth (ft):

[X] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

3.0 gals ACTUAL PURGE VOLUME

Total Purge Time: 10 min.

Recharge Rate: good | Purge Rate: 0.2 gpm

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556A / Hach / Ultrameter

Time	/	Liters or ~~Gallons~~	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	(See DTW) Comments
905	/	initial	7.09	12.7	pre 1.51	792.0 mS	-	12.1	
909	/	1.0	7.10	12.8	-	832.0	-	241.9	7.62
912	/	2.0	7.14	13.1	-	822.0	-	91.9	7.59
915	/	3.0	7.19	13.2	-	853.0	-	30.1	7.60
	/				Post 1.31				
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other: Baker Tanks

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/8/07 / 925

Purging Equipment: Pump - Type: Peri - Pump | Bailer - Type: | Other:

Sample Filtered: Yes (No) | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
937GW15	1L NP Amber	CET	2209	
	6 x 40 mL HCL vocs			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg. 900 | Well No.: 937GW32R
Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: DR | Sampled by: DR | Date: 3/2/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 40.86
Depth to Water (WL, ft. below TOC): 4.92
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disposable
[X] Normal [ ] Pump \ Type:
[ ] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[X] Near top Depth (ft): 6'
[X] Near Bottom Depth (ft): 35'
[ ] Other:

PURGE VOLUME CALCULATION

35.92 (Water Column Length) x 2.22 (Water Volume/ft) x 3 (No. Vols) = 239.2 gals CALCULATED PURGE VOLUME

240.0 gals ACTUAL PURGE VOLUME

Total Purge Time:
Recharge Rate: ~ | Purge Rate: 5gpm

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI/Hach / Orion / Ultrameter

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1255	0	7.9	17.1	—	2405	—	42	Pink water
1305	79.7	7.4	17.1	—	2632	—	36	"
1320	159.5	7.4	16.9	—	2690	—	21	clear / light pink
1335	239.2	7.4	16.8	Post 0.42	2703	Post -124	16	"

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/2/07 / 1345

Purging Equipment: Pump - Type: 3" Grundfos | Bailer - Type: Disposable | Other:

Sample Filtered: Yes (No) | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
937GW32R	6 x 40mL HCl VOAs	CTT	2189	
	2 x 1L Ambers NP			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg 900 | Well No.: 937GW35
Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: DR | Sampled by: DR | Date: 3/2/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other
Well Total Depth (TD, ft. below TOC): 14.40
Depth to Water (WL, ft. below TOC): 6.50
Depth to free phase (FP, ft. below TOC):
Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disposable
[X] Normal [ ] Pump \ Type:
[ ] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[X] Near top Depth (ft): 8'
[X] Near Bottom Depth (ft): 12'
[ ] Other:

PURGE VOLUME CALCULATION

7.9 (Water Column Length) x 1.68 (Water Volume/ft) x 3 (No. Vols) = 39.82 gals CALCULATED PURGE VOLUME
40.0 gals ACTUAL PURGE VOLUME

Total Purge Time: 7 min.
Recharge Rate: —
Purge Rate: 5 gpm

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI / Hach / Orion / Ultrameter

Time	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1207	0	7.8	17.4	—	744	—	42	
1209	13.3	7.7	16.3	—	783	—	31	
1210	26.6	7.6	15.9	—	821	—	30	stopped pump to recharge
1214	39.9	7.5	15.8	Post 0.42	686	Post 103	37	

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/2/07 / 1220
Purging Equipment: Pump - Type: 3" Grundfos | Bailer - Type: Disposable | Other:
Sample Filtered: Yes / (No) | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
937GW35	6 HCL VOAs 40 mL	CTT	2189	
	2 x 1L Ambers			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg. 900 | Well No.: 937GW37
Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: DR | Sampled by: DR | Date: 3/2/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 16.20
Depth to Water (WL, ft. below TOC): 6.59
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disposable
[X] Normal [ ] Pump \ Type:
[ ] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[X] Near top Depth (ft): 8'
[X] Near Bottom Depth (ft): 15'
[ ] Other:

PURGE VOLUME CALCULATION

9.61 (Water Column Length) x 2.22 (Water Volume/ft) x 3 (No. Vols) = 64.00 gals CALCULATED PURGE VOLUME

Total Purge Time: 13 min
Recharge Rate: —
Purge Rate: 5 gpm

65.0 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI / Hach / Orion / Ultrameter

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1126	0	8.0	14.6	—	732	—	109	clear
1130	21.3	7.4	14.6	—	763	—	38	"
1134	42.6	7.2	14.5	—	803	—	17	"
1138	64.0	7.1	14.4	Pkt .10	842	Pkt. 116	7	"

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/2/07 / 1145

Purging Equipment: Pump - Type: 3" Grundfos | Bailer - Type: Disposable | Other:

Sample Filtered: Yes (No) | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
937GW37	6 HCL voas 40ml	C+T	2189	
	2x1L Ambers			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell & Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg 9005 | Well No.: 937GW38
Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: BP | Sampled by: BP | Date: 3/5/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 47.10
Depth to Water (WL, ft. below TOC): 4.06
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: disposable
[ ] Normal [ ] Pump \ Type:
[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[X] Near top Depth (ft):
[ ] Near Bottom Depth (ft):
[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = CALCULATED PURGE VOLUME (gals)

Total Purge Time: 15
Recharge Rate:
Purge Rate: .25 gal/min

ACTUAL PURGE VOLUME: 5 gals

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron Ultra, Hach 2100, YSI 556

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1020	/	Initial			1.6				DR
1023	/	1 G	10.0	15.1		1309 mS		8	DR=4.85
1026	/	2 G	10.1	14.9		1325		7	DR=4.92
1029	/	3 G	10.7	14.8		1339		7	DR=5.68
1032	/	4 G	10.8	14.8		1346		7	DR=5.68
1035	/	5 G	10.8	14.8		1348		7	DR=5.69
1040	/				1.5				
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments: Purge water storage/disposal: [ ] ~~Onsite~~ [X] Other Baker

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3-5-07 / 1040

Purging Equipment: Pump - Type: Bailer - Type: disposable Other:

Sample Filtered: Yes / (No) Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
937GW38	6x40ml VOA	Cal	2194	
	1x1L Amb			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultants

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Building 900 | Well No.: 937GW39
Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: BP | Sampled by: BC | Date: 3/5/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 14.11
Depth to Water (WL, ft. below TOC): 7.90
Depth to free phase (FP, ft. below TOC):

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: disp
[ ] Normal [ ] Pump \ Type:
[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[X] Near top Depth (ft):
[ ] Near Bottom Depth (ft):
[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 21 min
Recharge Rate: | Purge Rate: .5 gal/min

7 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron Ultra Hach 2100 YSI 55

Time / Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1129 / Initial			1.1				
1132 / 1G	7.6	14.2		6147		11	DW=7.63
1135 / 2G	7.6	14.4		7274		9	DW=7.91
1138 / 3G	7.6	14.4		8150		12	DW=7.95
1141 / 4G	7.6	14.5		8812		13	DW=7.97
1144 / 5G	7.6	14.9		9519		13	DW=7.95
1147 / 6G	7.6	14.9		9675		13	DW=7.98
1150 / 7G	7.6	15.0		9825		12	DW=7.97
1155 /			1.0				
/							
/							
/							
/							
/							
/							

Comments: | Purge water storage/disposal: ~~[ ] Drummed onsite~~ [X] Other Baker

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/5/07 / 1155

Purging Equipment: Pump - Type: | Bailer - Type: disp. | Other:

Sample Filtered: Yes / (No) | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
937GW39	6x40 mL HCl	CAT	2194	
	1x1 L Amber			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Building 900 | Well No.: 937GW42
Project Number: 2843 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: BP | Sampled by: BP | Date: 3/5/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 28.22
Depth to Water (WL, ft. below TOC): 5.10
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type: 3" Grundfos
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft):
[X] Near Bottom Depth (ft): 27'
[ ] Other

PURGE VOLUME CALCULATION

23.12 (Water Column Length) x 2.22 (Water Volume/ft) x 3 (No. Vols) = 153.9 gals CALCULATED PURGE VOLUME

154 gals ACTUAL PURGE VOLUME

Total Purge Time: 31 min
Recharge Rate:
Purge Rate: 5 gpm

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Hach 2100. Myron Ultra PS 15 5

Time /	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1223 /	52.5 gal	7.5	18.3		1801 mS		6	
1234 /	103	7.3	18.3		1885		5	
1244 /	154	7.3	18.3		1904		5	
1250 /				1.2				DTW: 5.13
/								
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Comments: Purge water storage/disposal: ~~[X] Drummed onsite~~ [ ] Other Baker

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/5/07 / 1250

Purging Equipment: Pump - Type: Bailer - Type: disp Other:

Sample Filtered: Yes / (No) Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
937GW42	6x40mL VOAs	CAT	2194	
	1x1L amber			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg. 906 | Well No.: 9376w101

Project Number: 2693 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 3/6/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 14.70

Depth to Water (WL, ft. below TOC): 5.79

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[X] Other Middle

PURGE VOLUME CALCULATION

8.91 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 24.10 gals CALCULATED PURGE VOLUME

Total Purge Time: 19 min.

Recharge Rate: good

Purge Rate: 1.5 gpm

25.00 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556A / Hach / Ultrameter

Time / Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	DTW	Comments
1310 / initial	8.01	15.4	—	1006	—	332		
1315 / 8.02	7.16	15.7	—	953	—	26	6.84	
1320 / 16.04	7.12	15.6	—	879	—	14	6.86	
1325 / 21.10	7.13	15.5	—	876	—	10	6.86	
/			Post 0.43					
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Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tanks

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/6/07 / 1330

Purging Equipment: Pump - Type: 2" Rad. - Flo | Bailer - Type: | Other:

Sample Filtered: Yes / (No) | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
9376w101	6 1HCL vocs	CLT	2195	
	1 LNP Amber			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg 9003 | Well No.: 9376w102

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BP | Sampled by: BP | Date: 3/5/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 29.72

Depth to Water (WL, ft. below TOC): 6.20

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type

[X] Normal [X] Pump \ Type: 2" Grundfos

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft):

[X] Near Bottom Depth (ft): 27'

[ ] Other

PURGE VOLUME CALCULATION

23.52 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 63.5 gals CALCULATED PURGE VOLUME

Total Purge Time: 14 min

Recharge Rate: | Purge Rate: 4 gpm

64.0 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Horiba U10, Myron Ultra, YSI 55

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1444	22.0	7.3	16.5	[illegible]	1972 mS		8	
1449	43.0	7.2	16.4		1927		6	
1454	64.0	7.2	16.5		1910		7	
1500				1.2				

Comments: | Purge water storage/disposal: [X] On-site [X] Other Baker

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/5/07 1500

Purging Equipment: Pump - Type: 2" Grundfos | Bailer - Type: | Other:

Sample Filtered: Yes / (No) | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
9376w102	6x40 mL	CTT	2194	
	1x1 L A			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	9376w103 (B) 9376w102
Transfer	
Other:	

1430

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg 900s | Well No.: 937GW103
Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: BP | Sampled by: BP | Date: 3/5/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 49.88
Depth to Water (WL, ft. below TOC): 5.84
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type: 2" grundfos
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft):
[X] Near Bottom Depth (ft): 42'
[ ] Other

PURGE VOLUME CALCULATION

38.99 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 105.3 gals CALCULATED PURGE VOLUME

Total Purge Time: 21 min
Recharge Rate:
Purge Rate: 4 gpm

106 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron Ultra Hach 2100 YSI 55

Time /	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1401 /	36	7.3	16.7		2095 mS		9	
1408 /	71	7.4	16.8		2207		7	
1415 /	106	7.4	16.8		2237		7	
/								
1420 /				3.8				
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Comments: Purge water storage/disposal: ~~[X] Contained onsite~~ [ ] Other Baker

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: 3/5/07 / 1420

Purging Equipment: Pump - Type: 2" grundfos Bailer - Type: Other:

Sample Filtered: Yes / (No) Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
937GW103	6x40 mL	CT	2194	
	1x1 L			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area 900's Well No. 937GW104

Project Number 2893 Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By P.Cornish Sampled by P.Cornish Date 3/5/07

WELL PURGING

PURGE VOLUME

Well casing diameter

[X] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 29.90

Depth to Water (WL, ft. below TOC): 6.87

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged

[X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type

[X] Normal [X] Pump \ Type 2" Rediflo

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[X] Other Middle ~12'

PURGE VOLUME CALCULATION

23.07 (Water Column Length) x 20 gal (Water Volume/ft) x 3 (No. Vols) = 60 gals CALCULATED PURGE VOLUME

60 gals ACTUAL PURGE VOLUME

Total Purge Time

Recharge Rate good

Purge Rate 3gpm upto ~4gpm

DO YSI 550

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type Myron L Ultrameter/Mach 100

Time	/	Liters or ~~Gallons~~	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	ft. DTW: Comments
900	/	Initial	6.60	14.6	pre –	2001 µS	–	63	7.11
915	/	20	7.65	16.8	–	1995	–	14	7.90 Increase pump Speed
919	/	40	7.55	17.0	–	1988	–	8	7.90
925	/	60	7.57	17.0	–	1992	–	8	7.91
	/				post 0.03				
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Comments Purge water storage/disposal [ ] Drummed onsite [X] Other Onsite Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled 3/5/07 / 0928

Purging Equipment: Pump - Type 2" Rediflo Bailer - Type Other

Sample Filtered: Yes (No) Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
937GW104	1x1 Amber NP	CET	2193	
	6x 40ml Voa HCl			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area 900's | Well No. 937GW105

Project Number 28937 | Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By P. Cornish | Sampled by P. Cornish | Date 3/5/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 15.01

Depth to Water (WL, ft. below TOC): 6.65

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type 2" Redi Flo
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

8.36 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 22.5 gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate 3gpm

30 gals ACTUAL PURGE VOLUME

DO YSI 550

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type Myron Ultrameter / Hach 2100

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	(ft) DTW: Comments
1155 / initial	7.68	19.3	-	30.45	-	299	-
1158 / 7.5	7.60	16.6	-	33.87	-	14	7.12
1200 / 15	7.63	16.1	-	29.84	-	8	7.13
1203 / 22.5	7.61	15.5	-	28.55	-	8	7.14
1205 / 30	7.59	15.8	post 0.21	27.98	-	8	7.14
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Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other onsite Tank

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled 3/5/07 / 1210

Purging Equipment: Pump - Type 2" Redi Flo | Bailer - Type | Other

Sample Filtered: Yes / (No) | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
937GW105	1x1L Ambers NP	CAT	2193	
	6x40ml Vox HCl			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell & Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area 900s | Well No. 937GW106

Project Number 2693 | Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By P.Carwish | Sampled by P.Carwish | Date 3/5/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 14.79

Depth to Water (WL, ft. below TOC): 9.77

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type 2" Redi-Flo
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[X] Other middle 2nd

PURGE VOLUME CALCULATION

5.02 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 13.5 gals CALCULATED PURGE VOLUME

Total Purge Time: 10 min.

Recharge Rate: good | Purge Rate: 2 gpm

18.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556A / Hach / Hermite

Time	/ Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	DTW	Comments
1228	/ initial	7.86	16.5	—	1898 µS	—	69	11.49	
1230	/ 4.5	7.49	15.7	—	1562	—	11	11.56	
1232	/ 9.0	7.45	16.4	—	1993	—	12	12.06	
1234	/ 13.5	7.48	15.9	—	1512	—	12	12.10	
1236	/ 18.0	7.41	15.8	Post 0.70	1486	—	8	12.18	
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Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other onsite Tank

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled 3/5/07 / 1245

Purging Equipment: Pump - Type 2" Redi-Flo | Bailer - Type | Other

Sample Filtered: Yes / (No) | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
937GW106	1 L amb plastic	CTI	2193	
	6 x 40 mL HCl vials			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultants

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg 900 | Well No.: 937GW107

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 3/5/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 29.80

Depth to Water (WL, ft. below TOC): 10.20

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

17.6

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type Redi-Flo 2
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[X] Other Middle ~25

PURGE VOLUME CALCULATION

19.60 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 52.8 gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: good | Purge Rate: 5 gpm

53 gals ACTUAL PURGE VOLUME

DO YSI 550A

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron Ultrameter / Hach 2100

Time	/ Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments DTW
1255	/ 17.1	8.09	19.2	—	839 MS	—	101	10.75
1300	/ 17.7	7.90	19.2	—	842	—	28	10.70
1305	/ 35.4	8.00	19.4	—	846	—	10	10.70
1309	/ 52.8	7.87	19.1	—	853	—	7	10.70
	/			post 0.30		—		
	/							
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	/							
	/							

Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other Onsite Tanks

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/5/07 / 1320

Purging Equipment: Pump - Type: 2" Redi-Flo | Bailer - Type: | Other:

Sample Filtered: Yes / (No) | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
937GW107	1 L NP Amber	CFT	2193	
	6 40mL VOAs HCL			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Building 900 | Well No.: 937GW108
Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: BP | Sampled by: BP | Date: 3/5/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 14.89
Depth to Water (WL, ft. below TOC): 5.63
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type: 2" redi-flo
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft):
[X] Near Bottom Depth (ft): 13'
[ ] Other

PURGE VOLUME CALCULATION

9.26 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 25.0 gals CALCULATED PURGE VOLUME

Total Purge Time: 9 min
Recharge Rate:
Purge Rate: 3 gpm

25 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Hach 2100 Micro U Hrs 45155

Time / Liters or (Gallons)	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1310 / 8.5	7.4	13.7		512 µS		31	
1312 / 16.5	7.3	13.0		529		18	
1315 / 25.0	7.3	12.9		539		15	
1320 /			0.9				
/							
/							
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/							
/							

Comments: Purge water storage/disposal: ~~Drummed onsite~~ [X] Other Baker

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: 3/5/07 / 1320

Purging Equipment: Pump - Type: 2" redi-flo | Bailer - Type: ~~disp~~ | Other:

Sample Filtered: Yes / (No) Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
937GW108	6x40mL 1x1L Amb	CLT	2194	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area 900 | Well No. ~~979~~ 977GW109

Project Number 2893 | Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By D. Cornish | Sampled by D. Cornish | Date 3/5/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 14.58

Depth to Water (WL, ft. below TOC): 6.67

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type

[X] Normal [X] Pump \ Type 2" Rediflo

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft) ~10'

[X] Other middle of screen

PURGE VOLUME CALCULATION

7.90 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 21.5 gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate 2 gpm

21.5 gals ACTUAL PURGE VOLUME

DO YSI 550

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type Myron L 4 Ultrameter / Hach 2100

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	(SU) DTW: Comments
1345	/	initial	8.45	16.8	-	2026845 µs	-	107	7.88
1348	/	7.1	8.33	14.0	-	2076	-	9	7.88
1351	/	14.2	8.18	15.0	-	2073	-	7	7.85
1354	/	21.3	8.24	15.5	-	2060	-	10	7.90
	/				post 0.09				
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Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other on site Tank

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled 3/5/07 / 1402

Purging Equipment: Pump - Type 2" Rediflo | Bailer - Type | Other

Sample Filtered: Yes (No) | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
~~975GW109~~	1x1L Amber NP	CAT	2193	
977GW109	6x40ml Voa HCl			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell & Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg. 900 | Well No.: 979GW110

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 3/5/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 29.98

Depth to Water (WL, ft. below TOC): 6.15

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type: 2" Redi-flo
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft):
[ ] Near Bottom Depth (ft):
[X] Other: Middle

PURGE VOLUME CALCULATION

23.83 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 64.24 gals CALCULATED PURGE VOLUME

64.5 gals ACTUAL PURGE VOLUME

Total Purge Time:

Recharge Rate: (good) | Purge Rate: 5 gpm

DO YSI 550

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron L Ultrameter / Hach 2100

Time	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1430	21.4	8.37	17.5	—	6110 MS	—	126	DTW 7.28
1434	42.8	8.24	16.7	—	6139	—	19	7.49
1438	64.2	8.47	17.7	—	6093	—	6	7.56
1442		8.44	17.5	P-St 0.12	6034	—	8	7.55

Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other: Baker Tanks

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 3/5/07 / 1450

Purging Equipment: Pump - Type: 2" Redi-Flo | Bailer - Type: | Other:

Sample Filtered: Yes / (No) | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
979GW110	1 L NP Amber	C+T	2193	
	6 x 40 mL HCL vials			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultants

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area 900's | Well No. 979 GWMW

Project Number 2693 | Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By R. Conniff | Sampled by R. Conniff | Date 3/5/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 17.40

Depth to Water (WL, ft. below TOC): 15.65

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type

[X] Normal [X] Pump \ Type 2" Rediflo

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft) ~22'

[X] Other Middle

PURGE VOLUME CALCULATION

1.75 (Water Column Length) x 19.6 (Water Volume/ft) x 3 (No. Vols) = 60 gals CALCULATED PURGE VOLUME

60 gals ACTUAL PURGE VOLUME

Total Purge Time 10 min

Recharge Rate —

Purge Rate 4 gpm

DO YSI 550

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type Myron Ultrameter / Hach 2100

Time	/	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	(Ft.) DTW	Comments
1030	/	initial	7.65	18.9	—	3160 µs	—	68	—	
1032	/	20	7.40	17.7	—	2843	—	16	17.35	
1035	/	40	7.23	17.9	—	2126	—	8	17.38	
1038	/	60	7.21	17.7	Post 0.13	2602	—	6	17.39	
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Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled 3/5/07 / 1045

Purging Equipment: Pump - Type 2" Rediflo | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
979GWMW	4 x 1L Amber NP 6 x 40ml Voa HCl	CET	2193	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell & Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg. 900 | Well No.: 979GW112

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 3/5/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [✓] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 29.80

Depth to Water (WL, ft. below TOC): 15.58

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type

[X] Normal [X] Pump \ Type 2" Redi-Flo

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[X] Other middle

PURGE VOLUME CALCULATION

13.92 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 37.5 gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate:

Purge Rate: 3 gpm

38 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 550A / Hach / Ultrameter

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
									DTW
1515	/	12.5 from	8.28	16.2	—	1310 µS	—	397	16.02
1519	/	12.5	8.08	16.2	—	1187	—	47	16.02
1523	/	25.0	7.99	16.0	—	1175	—	13	16.05
1527	/	37.5	7.98	15.9	post 0.62	1168	—	10	16.15
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Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tanks

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/5/07 / 1535

Purging Equipment: Pump - Type 2" Redi-Flo | Bailer - Type | Other

Sample Filtered: Yes / (No) | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
979GW112	6x40 mL HCl vials	CT	2193	
	1x1L NP Amber			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultants

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area 900s | Well No. 979GW113

Project Number 2893 | Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By P.Cornish | Sampled by P.Cornish | Date 3/6/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 28.70

Depth to Water (WL, ft. below TOC): 7.05

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type

[X] Normal [X] Pump \ Type 2" Redflo

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[X] Other middle

PURGE VOLUME CALCULATION

21.65 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 58.4 gals CALCULATED PURGE VOLUME

59 gals ACTUAL PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate

DO YSI 550A

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type Myron L Ultrameter/Hach 2100

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	(TOC) DTW: Comments
820	/	initial	7.02	14.0	-	8618 µS	-	27	
826	/	22	7.47	14.9	-	8672	-	11	7.78
831	/	44	7.55	15.1	-	8581	-	10	7.89
836	/	59	7.65	13.8	-	8662	-	7	7.92
	/				pest 0.47				
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Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other onsite Tanks

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled 3/6/07 1845

Purging Equipment: Pump - Type 2" Redflo | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
979GW113	1x1L Amber NP	CT	2195	
	6x40ml Vial HCl			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg. 900 | Well No.: 979GW114

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 3/6/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 14.80

Depth to Water (WL, ft. below TOC): 7.02

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

7.0

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type

[X] Normal [X] Pump \ Type: 2" Redi-flo

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[X] Other: Middle

PURGE VOLUME CALCULATION

7.78 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 21.0 gals CALCULATED PURGE VOLUME

Total Purge Time: 10 min.

Recharge Rate: good | Purge Rate: 2 gpm

21 gals ACTUAL PURGE VOLUME

DO YSI Ext 504

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron L Ultrameter / Hach 2100

Time	/ Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	(FP) DTW	Comments
910	/ initial	7.44	12.6	—	8972 µs	—	32		
913	/ 7.0	7.61	13.2	—	8777	—	11	7.39	
916	/ 14.0	7.55	13.1	—	9077	—	8	7.42	
919	/ 21.0	7.57	13.2	—	9134	—	7	7.42	
	/			Post 0.62					
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Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other: Baker Tanks

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/6/07 / 930

Purging Equipment: Pump - Type: 2" Redi-Flo | Bailer - Type: | Other:

Sample Filtered: Yes / (No) | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
979GW114	6 1 L HCl Vials	CTI	2195	
	1 L NP Amber			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultants

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area 900 Well No. 979GW115

Project Number 2893 Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By R.Cornish Sampled by RCornish Date 3/6/07

WELL PURGING

PURGE VOLUME

Well casing diameter [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 14.89

Depth to Water (WL, ft. below TOC): 8.50

Depth to free phase (FP, ft. below TOC):

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

Number of borehole volumes to be purged [X] 3 [ ] Not Applicable [ ] Other 5.8

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type

[X] Normal [X] Pump \ Type 2" Rediflo

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[X] Other middle ~10'

PURGE VOLUME CALCULATION

6.39 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 19.17 gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate Purge Rate 2 gpm

20 gals ACTUAL PURGE VOLUME

DO YSI 550A

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type Myron L Ultrameter / Hach 2100

Time / Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	(ft) DTW: Comments
940 / initial	7.41	15.2	-	2224 µs	-	17	
942 / 6	7.42	14.8	-	1720	-	13	8.58
945 / 12	7.26	15.1	-	1546	-	7	8.60
948 / ~~18~~ 19.7	7.24	15.4	-	1512	-	6	8.65
/			post 0.20				
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments Purge water storage/disposal [ ] Drummed onsite [X] Other Onsite Tank

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled 3/6/07 / 955

Purging Equipment Pump - Type 2" Rediflo Bailer - Type Other

Sample Filtered: Yes / (No) Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
979GW115	1x1L Ambers	CET	2195	Split Sample to Columbia @ 1010
	6x 40ml Vea HCl			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.
DUP030607-1A	979GW115 @ 1005

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area 900's | Well No. 979GW116

Project Number 2893 | Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By P. Cornish | Sampled by P. Cornish | Date 3/6/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 29.82

Depth to Water (WL, ft. below TOC): 8.42

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

19.3

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type

[X] Normal [X] Pump \ Type 2" Redi flo

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft) ~20'

[X] Other middle

PURGE VOLUME CALCULATION

21.40 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 57.78 gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate good | Purge Rate 4gpm

58.0 gals ACTUAL PURGE VOLUME

DO YSI 550A

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type Myron L Ultrameter/Hach 2100

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	(ft.) DTW	Comments
1030	/	Initial	7.28	18.3	–	8855µs	–	107	–	
1035	/	19.5	7.19	18.0	–	5895	–	7	8.82	
1040	/	40	7.16	17.9	–	5310	–	7	8.90	
1045	/	58	7.19	18.2	–	4961	–	9	8.90	
	/				post 0.22					
	/									
	/									
	/									
	/									
	/									
	/									
	/									
	/									
	/									
	/									

Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other on site Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled 3/6/07 / 1055

Purging Equipment: Pump - Type 2" Redi flo | Bailer - Type | Other

Sample Filtered: Yes / NO | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
979GW116	3x1L Amber NP	CET	2193	MS/MSD
	18x40ml Voa HCl			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.
979GW116	DUP030607B @ 1105

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell & Rollo
Environmental and Geotechnical Consultants

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg. 900 | Well No.: 979GW117

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR/PC | Date: 3/5/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 44.61

Depth to Water (WL, ft. below TOC): 8.68

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type
[X] Normal [X] Pump \ Type 2" Redi-Flo
[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[X] Other middle 22'

PURGE VOLUME CALCULATION

35.93 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 96.9 gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate good

Purge Rate 0.5 gpm

97.0 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 550A / Oakton meter / Hach

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	(ft) DTW:	Comments
1112	/	initial	7.41	19.1	—	26.94	—	41	—	
1120	/	DR 32.5 15.0	7.36	20.1	—	28.11	—	24	23.45	
1123	/	DR 64.5	7.32	17.7	—	29.50	—	18	Unable to gauge	
1126	/	DR 96.9	7.32	17.8	Pos + 0.42	29.46	—	>1000	Turbid	
	/									
	/									
	/									
	/									
	/									
* Well dewatered. Checked recharge. Switched to modified. Purging 0.5 gpm										
	/ 97.5 gal.									
	/									
	/									
	/									
	/									

Comments | Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/5/07 / 1135

Purging Equipment: Pump - Type 2" Redi-Flo | Bailer - Type | Other

Sample Filtered: Yes / (No) | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
979GW117	2 x 1 L HNO3 preserved	CLT	2193	
	6 x 40 mL HCl	VOCs		

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area 900's Well No. 950GW108

Project Number 2893 Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By P-cornish Sampled by P-cornish Date 3/6/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 29.70

Depth to Water (WL, ft. below TOC): 7.20

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

20.3

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type

[X] Normal [X] Pump \ Type 2" Redi-flo

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[X] Other middle ~20'

PURGE VOLUME CALCULATION

22.50 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 61 gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate Good Purge Rate 4gpm

61 gals ACTUAL PURGE VOLUME

DO YSI 550A

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type Myron L. Ultrameter / Hach 2100

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1126	/	initial	7.69	19.0	—	2105	—	166	DTW
1131	/	20.3	7.64	18.1	—	2064	—	25	7.47
1136	/	40.6	7.55	18.2	—	2052	—	14	7.48
1141	/	60.9	7.60	18.1	—	2109	—	13	7.47
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments Purge water storage/disposal [ ] Drummed onsite [X] Other Baker Tanks

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled 3/6/07 / 1150

Purging Equipment Pump - Type 2" Redi-Flo Bailer - Type Other

Sample Filtered: Yes / (No) Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
950GW108	6 1 L VOAs	CHT	2195	
	1 L NP Amber			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

LANDFILL 8
APPENDIX SECTION A-2
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2007
Presidio of San Francisco, California

1.0 INTRODUCTION AND BACKGROUND

Landfill 8 is located in the southwestern portion of the Presidio (Figure 1) in the vicinity of the U.S. Public Health Services Hospital (PHSH). The site elevation (Figure A-2-1) is approximately 250 feet above PLLW in the northeast and approximately 190 feet above PLLW in the southwest (Montgomery Watson, 1996c). In 1874, the PHSH was established as a full-service U.S. Merchant Marine Hospital and laboratory. The U.S. Public Health Services took control of the facility in 1927 and operated the hospital until it was closed in November 1981 (Montgomery Watson, 1996c). Landfill 8 was used between the years of 1946 and 1973 to dispose of vegetative debris, miscellaneous building debris, and some garbage and clean fill (Woodward Clyde Consultants, 1990; USACE, 1990).

Groundwater samples have been collected from Landfill 8 monitoring wells since September 1994. Previous laboratory analyses of the groundwater samples included; general chemistry, cyanide, metals, volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), organochlorine pesticides (OCPs), polychlorinated biphenyls (PCBs), and chlorinated herbicides. No PAHs, OCPs, PCBs, or chlorinated herbicides have been detected above laboratory reporting limits at Landfill 8 since monitoring began in September 1994. Summaries of previous dissolved oxygen, general chemistry, cyanide, PAH, OCP, PCB, chlorinated herbicide, VOC, and metals results can be found in Tables A-2-1 through A-2-3.

A reduction in sampling frequency for all Landfill 8 wells to annual was previously approved by the stakeholders; thus, sampling was only conducted during the First Quarter 2007, in accordance with the approved sampling plans (Tables 1A and 1B).

2.0 SITE DESCRIPTION AND GEOLOGY

Landfill 8 is a part of the Lobos Creek Groundwater Basin (Figure 1). Groundwater is found at approximately 10 to 50 feet bgs and flows to the southeast. Soils beneath Landfill 8 consist of unconsolidated Colma Formation sedimentary deposits of sand, silt, and clay. These deposits are underlain by Franciscan Formation bedrock (Montgomery Watson, 1996c).

3.0 PUBLIC HEALTH SERVICE HOSPITAL RECORD OF DECISION

In early 1995, the U.S. Army completed the Record of Decision (ROD) for the Former PHSH Area (PHSH ROD). The PHSH ROD addressed three remediation sites within the PHSH Area, including Landfill 8. The selected remedy was quarterly groundwater monitoring for five years to confirm that chemicals are not leaching from the fill material to the groundwater.

The quarterly monitoring program at Landfill 8 has met the requirements of the PHSH ROD. The *Five Year Review and Field Investigation Work Plan for Landfills 8 and 10* was finalized in October 2002. In order to evaluate remedial actions undertaken in accordance with the 1995 PHSH ROD, the Trust will determine whether a ROD amendment or an Explanation of Significant Differences will be required for future site remediation. Potential future remedial actions to be completed at Landfill 8 include construction of a permeable landfill cover or partial landfill removal. A landfill delineation study was completed at Landfill 8 in November 2002. Results of the study will be used in the selection of the final remedy for the site (URS, 2002).

The *Five Year Review and Final Investigation Report for Landfills 8 and 10* (FYR) was submitted to the regulatory agencies and RAB in January 2004. A Focused Feasibility Study (FFS) for Landfills 8 and 10 has been prepared. Additionally, the Trust is currently preparing a RAP and designing new remedial actions for the two landfill sites. The Draft RAP is scheduled to be completed in 2008.

4.0 GROUNDWATER MONITORING

Landfill 8 has five associated monitoring wells and two piezometers (Figure A-2-1). Groundwater elevations and samples were collected from Landfill 8 monitoring wells during the First Quarter 2007 and analyzed for the parameters described in Section 5.0. No groundwater elevations or samples were collected at Landfill 8 during the Second Quarter 2007, in accordance with Table 1B.

4.1 Groundwater-Level Measurements and Interpretation

Groundwater elevation measurements were collected on 26 February 2007 at the five Landfill 8 monitoring wells and two piezometers during the First Quarters 2007. Groundwater elevations were not collected from Landfill 8 during the Second Quarter 2007. A summary of groundwater elevations is presented in Table A-2-4. Water level meters were calibrated on 26 February and the calibration logs can be found in Appendix B. Groundwater elevation field forms are presented in Appendix C.

First Quarter 2007 groundwater elevations ranged from 175.16 to 220.66 feet above PLLW in monitoring well LF08GW02B and piezometer LF08PZ01, respectively. Groundwater flow was determined to be in a southeasterly direction, which follows the general topographic trend. The groundwater gradient was calculated to be approximately 0.09 feet per foot. A groundwater

elevation map showing the First Quarter 2007 groundwater contours and flow direction for Landfill 8 is included as Figure A-2-1. Groundwater elevations, gradients, and flow directions are consistent with historical values and interpretations. No significant trends or observations were identified at Landfill 8 during the First Quarter 2007.

4.2 Monitoring Well Purging and Sampling

The five Landfill 8 monitoring wells were purged and sampled on 6 and 7 March 2007 during the First Quarter 2007. Landfill 8 monitoring wells were purged and sampled using the methods shown in Table 1A and in accordance with procedures described in the FSP (Treadwell & Rollo, 2001a). Groundwater sampling was not proposed for the Landfill 8 monitoring wells during the Second Quarter 2007 (Table 1B).

Purge equipment, purging volumes, purge water parameters, and sampling equipment for each monitoring well are described in the purge records located at the conclusion of this Appendix A section. Purge water was stored for future disposal in one of two 2,800-gallon aboveground polyethylene storage tanks, which are located at the Central Magazine.

4.3 Groundwater Analytical Program

All groundwater samples collected were submitted to the project laboratory for the analyses proposed in Table 1A. The appropriate sampling containers, preservatives, and maximum holding times for each analytical method are shown in Table 5. Sample containers used for each well are described in the purge records located at the conclusion of this section.

QA/QC samples were collected as part of this program. Section 6.2 of the main report discusses the QA/QC sampling and analysis performed during the First Quarter 2007.

5.0 GROUNDWATER ANALYTICAL RESULTS

Groundwater samples were collected from the five Landfill 8 monitoring wells (LF08GW01, LF08GW02B, LF08GW03, LF08GW04, and LF08GW06) during First Quarter 2007. The monitoring wells were analyzed for general chemistry parameters, total dissolved solids, OCPs, PCBs, VOCs, PAHs, total sulfide, cyanide, and 23 dissolved metals, in accordance with the proposed sampling schedule (Table 1A). Current and historical analytical results are presented in Tables A-2-1 through A-2-3.

In addition to the analyses, groundwater from Landfill 8 monitoring wells was also measured in the field for oxidation-reduction potential (ORP), pH, temperature, and dissolved oxygen prior to sampling, as part of the low flow sampling procedure. Temperature, ORP and pH data can be found on the groundwater sampling forms associated with Landfill 8 monitoring wells. No Landfill 8 monitoring wells were scheduled to be sampled during the Second Quarter 2007, in accordance with Table 1B.

5.1 Dissolved Oxygen

Dissolved oxygen measurement results are summarized in Table A-2-1. The concentrations of dissolved oxygen measured within Landfill 8 monitoring wells during the First Quarter 2007 are within the range of historical concentrations. Dissolved oxygen was measured with an in-line dissolved oxygen meter during the First Quarter 2007.

5.2 General Chemistry, Cyanide, and Sulfide Results

General chemistry, cyanide, and sulfide results are presented in Table A-2-1. The majority of general chemistry results from the First Quarter 2007 were within the range of previously detected concentrations within Landfill 8 Area monitoring wells.

Chloride was detected at a new high concentration of 280 mg/L within monitoring well LF08GW01 during the First Quarter 2007, in exceedance of the chloride cleanup level of 250 mg/L, identified in Table 4-5 of the Supplemental Information for the *Draft Feasibility Study Report, Landfills 8 and 10*, dated June 2005. This is the first exceedance for chloride at this location, and only the third exceedance at any Landfill 8 location since 1994. In general, chloride concentrations have been slowly rising in LF08GW01. Additional groundwater samples will be collected during future monitoring events to see if this trend continues.

5.3 PAHs, OCPs, PCBs, and Chlorinated Herbicides

No OCPs, PCBs, VOCs, MTBE, or PAHs compounds were detected above laboratory reporting limits within the Landfill 8 monitoring wells sampled and analyzed for these compounds during the First Quarter 2007.

5.4 Dissolved Metals Results

Dissolved metals results are presented in Table A-2-3. The majority of dissolved metals results were within the range of previously detected concentrations for Landfill 8 monitoring wells and are not considered significant. No dissolved metals cleanup levels were exceeded during the First Quarter 2007 at Landfill 8.

5.5 VOCs Results

VOCs were not detected in Landfill 8 groundwater samples collected during the First Quarter 2007 (Table A-2-2). Historically, tetrachloroethylene (PCE), dichloromethane and toluene have been detected sporadically at relatively low concentrations within Landfill 8 monitoring wells LF08GW01, LF08GW03 and LF08GW04.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Groundwater elevations, gradients, and flow directions during First Quarter 2007 are consistent with historical values and interpretations. The five Landfill 8 monitoring wells were sampled and analyzed during the First Quarter 2007 according to the proposed sampling schedule. The majority of general chemistry results from the First Quarter 2007 were within the range of previously detected concentrations within Landfill 8 Area monitoring wells.

No OCPs, PCBs, VOCs, or chlorinated herbicides were detected in the Landfill 8 groundwater samples collected during First Quarter 2007.

No other significant trends or observations were identified at Landfill 8 during First Quarter 2007. The sampling frequency at Landfill 8 has been reduced to annual monitoring, until the Landfill 8 RAP (RAP4) is finalized and implemented. RAP4 is scheduled to be completed in 2008. Sampling at Landfill 8 will be performed in accordance with the RAP4 requirements upon its completion.

Table A-2-1
Results of General Chemistry, Cyanide and Sulfide Analyses
Landfill 8
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	SW9010/ SW9012/ E335.2	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056	E376.1/ E376.2
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Cleanup Levels [4]		--	--	**250**	**0.0052**	--	--	--	--	--	--	--
LF08GW01	03/06/07	160	160	**280**	< 0.01	1.3	0.13	1.4	< 0.05	NA	41	< 0.04
	03/17/06	220	220	240	< 0.01	2.68	0.17	1.1	< 0.05	NA	41	< 0.04 R
	03/16/05	150	150	190	< 0.01	1.40	0.16	1.4	< 0.05	NA	38	< 0.04
	03/11/04	160	160	210	< 0.01 UJ	2.5	0.17	1.4	< 0.05	NA	40	< 0.04
DUP0311041A	03/11/04	160	160	210	< 0.01 UJ	--	0.17	1.4	< 0.05	NA	40	< 0.04
LF08GW01CL	03/11/04	160	160	200	< 0.005	--	0.12	1.4	< 0.05	1.4	37	< 0.1
	08/20/03	140	140	190	< 0.01	2.89	0.17	1.3	< 0.05	NA	38	< 0.04
DUP0820031A	08/20/03	160	160	190	< 0.01	--	0.17	1.4	< 0.05	NA	38	< 0.04
LF08GW01CL	08/20/03	150	150	190	0.005 J-	--	0.14 J+	1.6 J-	< 0.05	1.6 J-	34	< 0.1
	03/13/03	180	180	180	< 0.01	2.15	0.11	1.5	< 0.05	NA	35	< 0.04
	08/27/02	140 J-	140 J-	220	< 0.01	1.85	0.31	0.94	< 0.05	NA	39	< 0.04
DUP0827021A	08/27/02	140 J-	140 J-	210	< 0.01	--	0.32	0.95	< 0.05	NA	39	< 0.04
LF08GW01CL	08/27/02	130	130	210	< 0.01 U	--	< 1	1.1 [3]	< 1	NA	40	< 1 U
	03/12/02	160	160	160	< 0.01	2.75	< 0.1 U	1.6	< 0.05	NA	36	< 0.04
	09/04/01	140	140	200	< 0.01	4.47	0.28	0.88	< 0.05	NA	42	< 0.04
	05/16/01	140	140	170	< 0.01	4.06	0.19	2.3	< 0.05	NA	39	< 0.04
	06/15/00	192	146	173	< 0.01	1.48	0.307	NA	NA	775	51.4	< 0.05
	01/12/00	157	157	166	< 0.01	1.49	0.263	NA	NA	0.827	50.3	< 0.05
	08/30/99	174	174	133	< 0.01	4.86	0.303	NA	NA	0.64	52.2	< 0.05
	02/24/99	165	165	119	< 0.01	1.65	0.247	NA	NA	1.28	52.3	< 0.05
	08/19/98	158	158	109	< 0.01	1.62	0.22	NA	NA	0.956	58.2	< 0.05
	06/02/98	165	165	111	< 0.01	1.3	0.35	NA	NA	1.27	63.9	< 0.05
	03/09/98	163	163	99.9	< 0.01	1.71	0.269	NA	NA	1.34	63.7	< 0.05
	12/11/97	163	163	90	< 0.01	1.07	0.8	NA	NA	1.36	46.8	< 0.05
	09/10/97	158	158	107	< 0.01	0.75	0.31	NA	NA	1.27	61	< 0.05
	06/25/97	163	163	101	< 0.01	2.03	< 0.1	NA	NA	1.65	65.7	< 0.05
	03/27/97	161	161	96.9	< 0.01	0.99	0.344	NA	NA	2	61.1	< 0.05
	12/20/96	172	172	76.9	< 0.01	NM	0.222	NA	NA	2.2	40.9	< 0.05
	09/11/96	157	157	86.5	< 0.01	NM	0.23	NA	NA	3	47.4	< 0.05
	06/03/96	128	128	81.8	< 0.01	NM	0.15	NA	NA	1.6 (J33)	46.9	< 0.05
	03/15/96	164	164	78.8	< 0.01	NM	0.22	NA	NA	2.8	40.2	< 0.05
	11/28/95	155	155	78	< 0.01	NM	0.23	NA	NA	2.5	40.8	< 0.05
	09/19/95	150	150	76.7	< 0.01	NM	0.29	NA	NA	2.6	43.1	< 0.05
	06/05/95	185	185	76.6	< 0.01	NM	0.34	NA	NA	2.9	40.1	< 0.05

Table A-2-1
Results of General Chemistry, Cyanide and Sulfide Analyses
Landfill 8
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	SW9010/ SW9012/ E335.2	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056	E376.1/ E376.2
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Cleanup Levels [4]		--	--	**250**	**0.0052**	--	--	--	--	--	--	--
LF08GW01	03/08/95	174	174	78.5	< 0.01	NM	0.39	NA	NA	2.9	41.2	< 0.05
	12/15/94	169	169	78.2	< 0.01	NM	0.23	NA	NA	2.8	42	< 0.05
	09/23/94	187	187	81.2	< 0.01	NM	0.24	NA	NA	2.9	42.7	< 0.05
LF08GW02B	03/06/07	170	170	54	< 0.01	4.70	< 0.1	3	< 0.05	NA	29	< 0.04
	03/16/06	150	150	44	< 0.01	5.65	< 0.1	4.5	< 0.05	NA	29	< 0.04 R
	03/16/05	150	150	49	< 0.01	4.50	< 0.1	3.6	< 0.05	NA	32	< 0.04
	03/11/04	150	150	50	< 0.01 UJ	4.2	< 0.1	4	< 0.05	NA	33	< 0.04
	08/20/03	190	190	41	< 0.01	5.91	0.11	4.8	< 0.05	NA	28	< 0.04
	03/13/03	180	180	44	< 0.01	5.66	< 0.1	4.6	< 0.05	NA	33	< 0.04
	08/27/02	150 J-	150 J-	42	< 0.01	4.05	0.22	4.9	< 0.05	NA	29	< 0.04
	03/12/02	130	130	48	< 0.01	6.3	< 0.1 U	4.3	< 0.05	NA	35	< 0.04
	09/05/01	150	150	51	< 0.01	9.01	0.16	3.9	< 0.05	NA	32	< 0.04
	05/16/01	150	150	49	< 0.01 UJ	7.53	0.16	3.7	< 0.05	NA	32	< 0.04
	06/15/00	139	139	40	< 0.01	0.53	0.114	NA	NA	697	28.8	< 0.05
	01/12/00	139	139	49.6	< 0.01	6.63	0.119	NA	NA	4	28	< 0.05
	08/31/99	142	142	42.3	< 0.01	7.64	0.14	NA	NA	4.6	28.7	< 0.05
	02/25/99	146	146	49.5	< 0.01	6.02	0.126	NA	NA	4.1	29.7	< 0.05
	08/20/98	140	140	39.5	< 0.01	6.04	0.15	NA	NA	5.3	32.1	< 0.05
	06/03/98	143	143	35.4	< 0.01	5.14	0.18	NA	NA	6.1	41.9	< 0.05
	03/10/98	2,870	< 5 (R20)	42.3 (J20)	< 0.01	6.41	0.103 (J20)	NA	NA	4.8	44.6 (J20)	< 0.05
	12/15/97	129	129	43.5	< 0.01	5.54	0.154	NA	NA	3.1	33.5	< 0.05
	09/11/97	144	144	45.1	< 0.01	4.6	0.149	NA	NA	4.1	36.2	< 0.05
	06/24/97	138	138	40.8	< 0.01	5.38	< 0.1	NA	NA	5.7	45	< 0.05
	03/25/97	135	135	42.1	< 0.01	5.29	0.13	NA	NA	5.3	46.2	< 0.05
	12/23/96	144	144	44.6	< 0.01	NM	0.138	NA	NA	4.3	37.7	< 0.05
	09/11/96	135	135	53.5	< 0.01	NM	0.11	NA	NA	4.6	42.2	< 0.05
	06/03/96	128	128	40.6	< 0.01	NM	0.12	NA	NA	6.8	51.7	< 0.05
	03/15/96	108	108	46.3	< 0.01	NM	0.12	NA	NA	4	38	< 0.05
	11/28/95	103	103	50.1	< 0.01	NM	0.14	NA	NA	4.2	35.9	< 0.05
	09/19/95	131	131	51.1	< 0.01	NM	0.11	NA	NA	3.9	37	< 0.05
	06/06/95	124	114	51.2	< 0.01	NM	0.14	NA	NA	4.6	35.3	< 0.05
	03/23/95	47	< 5	53.2	< 0.01	NM	0.17	NA	NA	4.6	28.9	< 0.05
	12/16/94	67	< 5	61.3	< 0.01	NM	0.12	NA	NA	3	30.9	< 0.05
	09/26/94	118	99.3	67.8	< 0.01	NM	0.11	NA	NA	2.9	34.3	< 0.05

Table A-2-1
Results of General Chemistry, Cyanide and Sulfide Analyses
Landfill 8
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	SW9010/ SW9012/ E335.2	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056	E376.1/ E376.2
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Cleanup Levels [4]		--	--	**250**	**0.0052**	--	--	--	--	--	--	--
LF08GW03	03/06/07	250	250	77	< 0.01	1.20	< 0.1	3.7	< 0.05	NA	51	< 0.04
	03/16/06	290	290	72	< 0.01	1.49	< 0.1	4.4	< 0.05	NA	49	< 0.04 R
	03/16/05	220	220	65	< 0.01	1.00	< 0.1	5.6	< 0.05	NA	51	< 0.04
	03/11/04	230	230	70	< 0.01 UJ	0.9	< 0.1	5	< 0.05	NA	49	< 0.04
	08/20/03	220	220	68	< 0.01	1.1	< 0.1	4.3	< 0.05	NA	44	< 0.04
	03/13/03	210	210	68	< 0.01	0.9	< 0.1	4.7	< 0.05	NA	40	< 0.04
	08/27/02	230 J-	230 J-	71	< 0.01	0.78	0.24	4.6	< 0.05	NA	43	< 0.04
	03/12/02	240	240	70	< 0.01	0.96	< 0.1 U	5.7	< 0.05	NA	44	< 0.04
	09/04/01	240	240	71	< 0.01	1.39	0.13	4.5	< 0.05	NA	44	< 0.04
	05/16/01	230	230	68	< 0.01 UJ	2.43	0.12	4.5	< 0.05	NA	46	< 0.04
	06/15/00	234	234	70.1	< 0.01	0.2	0.113	NA	NA	587	42.4	< 0.05
	01/12/00	239	239	73	< 0.01	2.9	NA	NA	NA	4.3	45	< 0.05
	08/31/99	244	244	69.5	< 0.01	3.64	0.147	NA	NA	3.9	43.1	< 0.05
	02/25/99	242	242	73.6	< 0.01	3.25	0.105	NA	NA	4.4	45.1	< 0.05
	08/20/98	237	237	69.8	< 0.01	3.15	NA	NA	NA	4.4	43.7	< 0.05
	06/03/98	241	241	66.3	< 0.01	2.3	0.12	NA	NA	4.6	43.3	< 0.05
	03/10/98	2,810	< 5 (R20)	64.9 (J20)	< 0.01	3.94	< 0.10 (U20)	NA	NA	5.1	44.2 (J20)	< 0.05
	12/15/97	241	241	67.7	< 0.01	2.48	0.11	NA	NA	4	39.2	< 0.05
	09/11/97	240	240	69.4	< 0.01	2.17	0.112	NA	NA	3.8	42.6	< 0.05
	06/24/97	242	242	69	< 0.01	1.77	NA	NA	NA	4.4	42.8	< 0.05
	03/26/97	241	241	65.6	< 0.01	2	NA	NA	NA	5.1	42.6	< 0.05
	12/20/96	238	238	68	< 0.01	NM	0.151	NA	NA	4.2	41.8	< 0.05
	09/10/96	236	236	71.9	< 0.01	NM	0.12	NA	NA	4.5	43.4	0.086
	03/18/96	233	233	67.2	< 0.01	NM	NA	NA	NA	5.1	44.3	< 0.05
	11/29/95	234	234	71.1	< 0.01	NM	0.12	NA	NA	4.5	39.9	< 0.05
	09/18/95	220	220	68.4	< 0.01	NM	0.1	NA	NA	4.6	44.2	< 0.05
	06/07/95	231	231	61	< 0.01	NM	0.1	NA	NA	6.3	48.4	< 0.05
	03/24/95	224	224	67.2	< 0.01	NM	0.11	NA	NA	6.1	47.4	< 0.05
	12/14/94	234	234	75	< 0.01	NM	0.12	NA	NA	4.2	40.6	< 0.05
	09/26/94	227	227	80.1	< 0.01	NM	0.1	NA	NA	4.2	42.5	< 0.05

Table A-2-1
Results of General Chemistry, Cyanide and Sulfide Analyses
Landfill 8
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	SW9010/ SW9012/ E335.2	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056	E376.1/ E376.2
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Cleanup Levels [4]		--	--	**250**	**0.0052**	--	--	--	--	--	--	--
LF08GW04	03/07/07	130	130	46	< 0.01	2.90	< 0.1	6.5	< 0.05	NA	25	< 0.04
DUP0307073A	03/07/07	120	120	45	< 0.01	--	< 0.1	6.4	< 0.05	NA	25	< 0.04
	03/16/06	130	130	30	< 0.01	2.43	< 0.1	1.6	< 0.05	NA	17	< 0.04 R
DUP0316064A	03/16/06	86	86	30	**0.03**	--	< 0.1	1.5	< 0.05	NA	17	< 0.04 R
	03/17/05	90	90	29	< 0.01	2.20	< 0.1	2.3	< 0.05	NA	14	< 0.04
DUP0317052A	03/17/05	78	78	29	< 0.01	--	< 0.1	2.3	< 0.05	NA	14	< 0.04
LF08GW04CL	03/17/05	79	79	28	< 0.01 U	--	< 0.3 U	2.44	< 0.1 U	NA	13.7	< 0.04 U
	03/11/04	110	110	24	< 0.01 UJ	2	< 0.1	1.8	< 0.05	NA	18	< 0.04
	08/20/03	130	130	33	< 0.01	4.79	< 0.1	6	< 0.05	NA	33	< 0.04
	03/13/03	94	94	34	< 0.01	1.78	< 0.1	0.58	< 0.05	NA	11	< 0.04
DUP0313031A	03/13/03	82	82	34	< 0.01	--	< 0.1	0.59	< 0.05	NA	11	< 0.04
LF08GW04CL	03/13/03	56	56	35	< 0.005	--	< 0.1	0.58	< 0.05 UJ	0.58	10	< 0.1
	08/28/02	63	63	21	< 0.01	3	< 0.1	9	< 0.05	NA	150	< 0.04
	03/14/02	94	94	19	< 0.01 UJ	2	0.044 J	2.8	< 0.05	NA	11	< 0.04
	09/04/01	66	66	15	< 0.01	5.4	0.056 J	13	< 0.05	NA	100	< 0.04
DUP0904013A	09/04/01	68	68	15	< 0.01	--	0.06 J	13	< 0.05	NA	100	< 0.04
LF08GW04CL	09/04/01	NA	62	14	< 0.01	--	< 1	13 [3]	< 1	NA	100	< 1
	05/16/01	73	73	17	< 0.01 UJ	3.55	< 0.1	2.9	< 0.05	NA	15	< 0.04
	05/16/01	70	70	16	< 0.01	NM	< 1	2.7 [3]	< 1	NA	14	< 1
	06/19/00	58	58	10.6	< 0.01	0.18	< 0.1	NA	NA	799	5.33	< 0.05
	01/12/00	130	130	33.3	< 0.01	4.94	< 0.1	NA	NA	6.6	29.8	< 0.05
	08/31/99	111	111	36	< 0.01	2.51	< 0.1	NA	NA	4.3	25.5	< 0.05
	02/24/99	160	160	26.5	< 0.01	0.52	< 0.1	NA	NA	2.2	18	< 0.05
	08/19/98	85	84.8	38	< 0.01	4.49	< 0.1	NA	NA	0.56	19.6	< 0.05
	06/02/98	68	68.2	29.6	< 0.01	0.46 (J35)	< 0.1	NA	NA	0.26	13.5	< 0.05
	03/09/98	60	59.8	13	< 0.01	4.25	< 0.1	NA	NA	1.4	11.2	< 0.05
	12/11/97	183	183	14.7	< 0.01	6.57	< 0.1	NA	NA	7.2	121	< 0.05
	09/10/97	74	74.1	23.6	< 0.01	4.36	< 0.1	NA	NA	6.9	82.9	< 0.05
	06/23/97	85	84.8	35.9	< 0.01	3.32	< 0.1	NA	NA	2.1	23.4	< 0.05
	03/24/97	70	70.3	18	< 0.01	1.3	< 0.1	NA	NA	0.54	13.1	< 0.05
	12/19/96	128	128	20.2	< 0.01	NM	< 0.1	NA	NA	5.1	26.8	< 0.05
	09/10/96	89	89	36.4	< 0.01	NM	< 0.1	NA	NA	4.6	26.3	< 0.05
	03/18/96	83	83	21.6	< 0.01	NM	< 0.1	NA	NA	1.8	15.8	< 0.05
	11/29/95	72	71.5	18.7	< 0.01	NM	< 0.1	NA	NA	3.4	39.5	< 0.05
	09/20/95	79	78.5	22.4	< 0.01	NM	< 0.1	NA	NA	3	32.1	< 0.05

Table A-2-1
Results of General Chemistry, Cyanide and Sulfide Analyses
Landfill 8
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	SW9010/ SW9012/ E335.2	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056	E376.1/ E376.2
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Cleanup Levels [4]		--	--	**250**	**0.0052**	--	--	--	--	--	--	--
LF08GW04	06/07/95	60	60	29.1	< 0.01	NM	< 0.1	NA	NA	0.14	20.1	< 0.05
	03/23/95	76	76	22.1	< 0.01	NM	< 0.1	NA	NA	0.4	15.9	< 0.05
	12/16/94	153	153	9.6	< 0.01	NM	< 0.1	NA	NA	9.9	49.2	< 0.05
	09/23/94	107	107	7.2	< 0.01	NM	< 0.1	NA	NA	5	72	< 0.05
LF08GW06	03/06/07	180	180	140	< 0.01	6.50	0.29	1.2	< 0.05	NA	87	< 0.04
	03/17/06	220	220	140	< 0.01	6.85	0.24	1.1	< 0.05	NA	78	< 0.04 R
	03/16/05	220	220	220	< 0.01	5.40	0.2	1	< 0.05	NA	98	0.07
	03/11/04	190	190	250	< 0.01 UJ	4.1	0.23	1.2	< 0.05	NA	100	< 0.04
	08/20/03	NA	NA	NA	NA	5.4	NA	NA	NA	NA	NA	NA
	06/10/03	150	150	240	< 0.01	5.77	< 0.1	1.2	< 0.05	NA	92	< 0.04 UJ
	03/13/03	170	170	240	< 0.01	5.79	0.16	1.2	< 0.05	NA	84	< 0.04
	06/05/02	140	140	**260**	**0.02 J-**	4.8	0.22	1.2	< 0.05	NA	110	0.08
	03/12/02	160	160	250	< 0.01	5.12	< 0.1 U	1.5	< 0.05	NA	120	< 0.04
	05/10/01	160	160	240	< 0.01	7.57	0.33	1.3	< 0.05	NA	100	< 0.04
	05/21/99	175	175	221	< 0.01	9.5 (J35)	0.30	NA	NA	1.5	145	< 0.05
	02/25/99	263	263	181	< 0.01	8.84	0.33	NA	NA	1.8	102	< 0.05
	12/14/98	NA	NA	NA	< 0.01	4.62 (J35)	NA	NA	NA	NA	NA	< 0.05
	06/02/98	NA	NA	NA	NA	5.44	NA	NA	NA	NA	NA	< 0.05
	03/10/98	3,000	< 5 (R20)	169 (J20)	NA	5.21	0.34 (J20)	NA	NA	2.33	125 (J20)	< 0.05
	09/10/97	NA	NA	NA	< 0.01	1.93	NA	NA	NA	NA	NA	< 0.05
	03/27/97	262	262	**262**	< 0.01	4.79	0.39	NA	NA	1.2	80	< 0.05

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Total dissolved solids analysis was mistakenly not marked on the chain-of-custody by the field team and was therefore not analyzed by the laboratory.
3 - The QC laboratory nitrate results shown have been converted to nitrate as nitrogen (nitrate-N) as other laboratory results are reported. The QC laboratory reported nitrate as NO_3 concentrations (nitrate-NO_3) which are 4.43 times higher than nitrate-N concentrations. Section 6.2.1.2 in the main report of the *Draft Semi-Annual Groundwater Monitoring Report, First and Second Quarters 2003, Presidio-Wide Quarterly Groundwater Monitoring Program* discusses this issue (Treadwell & Rollo, 2003e).
4 - Cleanup levels taken from Table 4-5 of the *Supplemental Information for The Draft Landfill 8 and 10 FS Report* (EKI, 2006).
mg/L - milligrams per liter
NA - not analyzed
NM - not measured
"--" dissolved oxygen measurements were not taken for duplicate and quality control samples.
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-2-2
Results of PAH, OCP, PCB, Chlorinated Herbicide, and VOC Analyses
Landfill 8
Presidio of San Francisco, California

Well Name	Sample Date	All PAHs	All OCPs and PCBs	All Chlorinated Herbicides	VOCs				
					Dichloro-methane	MTBE	PCE	Toluene	All Other VOCs
	Analytical Method[1]	SW8310	SW8081/ SW8081A/ SW8082	SW8151/ SW8151A	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		--	--	--	**4.7**	**13**	**0.8**	**0.5**	--
LF08GW01	03/06/07	ND	ND	NA	< 4	< 0.5	< 0.5	< 0.5	ND
	03/17/06	ND	ND	NA	< 4	< 0.5	< 0.5	< 0.5	ND
	03/16/05	ND	ND	ND	< 4	< 0.5	0.5	< 0.5	ND
	03/11/04	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
DUP0311041A	03/11/04	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
LF08GW01CL	03/11/04	ND	ND	ND	0.69	< 0.5	< 0.5	< 0.5	ND
	08/20/03	ND	ND	NA	< 4	< 0.5	< 0.5	< 0.5	ND
DUP0820031A	08/20/03	ND	ND	NA	< 4	< 0.5	< 0.5	< 0.5	ND
LF08GW01CL	08/20/03	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/13/03	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	08/27/02	NA	NA	NA	NA	NA	NA	NA	NA
DUP0827021A	08/27/02	NA	NA	NA	NA	NA	NA	NA	NA
LF08GW01CL	08/27/02	NA	NA	NA	NA	NA	NA	NA	NA
	03/12/02	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	09/04/01	NA	NA	NA	NA	NA	NA	NA	NA
	05/16/01	ND	ND	ND	< 5	< 0.5	< 0.5	< 0.5	ND
	02/24/99	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	03/09/98	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	03/27/97	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	12/20/96	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	09/11/96	ND	ND	ND	< 4.5	NA	< 0.5	0.81	ND
	06/03/96	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	03/15/96	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	11/28/95	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	09/19/95	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	06/05/95	ND	ND	ND	< 5	NA	< 5	< 5	ND
	03/08/95	ND	ND	ND	< 5	NA	< 5	< 5	ND
	12/15/94	ND	ND	ND	< 5	NA	< 5	< 5	ND
	09/23/94	ND	ND	ND	< 5	NA	< 5	< 5	ND
LF08GW02B	03/06/07	ND	ND	NA	< 4	< 0.5	< 0.5	< 0.5	ND
	03/16/06	ND	ND	NA	< 4	< 0.5	< 0.5	< 0.5	ND
	03/16/05	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	03/11/04	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	08/20/03	ND	ND	NA	< 4	< 0.5	< 0.5	< 0.5	ND
	03/13/03	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	08/27/02	NA	NA	NA	NA	NA	NA	NA	NA
	03/12/02	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	09/05/01	NA	NA	NA	NA	NA	NA	NA	NA
	05/16/01	ND	ND	ND	< 5	< 0.5	< 0.5	< 0.5	ND
	02/25/99	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	03/10/98	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	03/25/97	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	12/23/96	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	09/11/96	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	06/03/96	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	03/15/96	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	11/28/95	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND

Table A-2-2
Results of PAH, OCP, PCB, Chlorinated Herbicide, and VOC Analyses
Landfill 8
Presidio of San Francisco, California

Well Name	Sample Date	All PAHs	All OCPs and PCBs	All Chlorinated Herbicides	VOCs				
					Dichloro-methane	MTBE	PCE	Toluene	All Other VOCs
	Analytical Method[1]	SW8310	SW8081/ SW8081A/ SW8082	SW8151/ SW8151A	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		--	--	--	**4.7**	**13**	**0.8**	**0.5**	--
LF08GW02B	09/19/95	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	06/06/95	ND	ND	ND	< 5	NA	< 5	< 5	ND
	03/23/95	ND	ND	ND	< 5	NA	< 5	< 5	ND
	12/16/94	ND	ND	ND	< 5	NA	< 5	< 5	ND
	09/26/94	ND	ND	ND	< 5	NA	< 5	< 5	ND
LF08GW03	03/06/07	ND	ND	NA	< 4	< 0.5	< 0.5	< 0.5	ND
	03/16/06	ND	ND	NA	< 4	< 0.5	< 0.5	< 0.5	ND
	03/16/05	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	03/11/04	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	08/20/03	ND	ND	NA	< 4	< 0.5	< 0.5	< 0.5	ND
	03/13/03	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	08/27/02	NA	NA	NA	NA	NA	NA	NA	NA
	03/12/02	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	09/04/01	NA	NA	NA	NA	NA	NA	NA	NA
	05/16/01	ND	ND	ND	< 5	< 0.5	< 0.5	< 0.5	ND
	02/25/99	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	03/10/98	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	03/26/97	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	12/20/96	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	09/10/96	ND	ND	ND	< 4.5	NA	< 0.5	0.72	ND
	03/18/96	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	11/29/95	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	09/18/95	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	06/07/95	ND	ND	ND	< 5	NA	< 5	< 5	ND
	03/24/95	ND	ND	ND	< 5	NA	< 5	< 5	ND
	12/14/94	ND	ND	ND	< 5	NA	< 5	< 5	ND
	09/26/94	ND	ND	ND	< 5	NA	< 5	< 5	ND
LF08GW04	03/07/07	ND	ND	NA	< 4	< 0.5	< 0.5	< 0.5	ND
DUP0307073A	03/07/07	ND	ND	NA	< 4	< 0.5	< 0.5	< 0.5	ND
	03/16/06	ND	ND	NA	< 4	< 0.5	< 0.5	< 0.5	ND
DUP0316064A	03/16/06	ND	ND	NA	< 4	< 0.5	< 0.5	< 0.5	ND
	03/17/05	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
DUP0317052A	03/17/05	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
LF08GW04CL	03/17/05	ND	ND	ND	< 4.5 U	< 0.5 U	< 0.5 U	< 0.5 U	ND
	03/11/04	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	08/20/03	ND	ND	NA	< 4	< 0.5	< 0.5	< 0.5	ND
	03/13/03	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
DUP0313031A	03/13/03	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
LF08GW04CL	03/13/03	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/28/02	NA	NA	NA	NA	NA	NA	NA	NA
	03/14/02	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	09/04/01	NA	NA	NA	NA	NA	NA	NA	NA
DUP0904013A	09/04/01	NA	NA	NA	NA	NA	NA	NA	NA
LF08GW04CL	09/04/01	NA	NA	NA	NA	NA	NA	NA	NA
	05/16/01	ND	ND	ND	< 5	< 0.5	< 0.5	< 0.5	ND
LF08GW04CL	05/16/01	ND	ND	ND	< 5	< 5	< 1	< 1	ND
	02/24/99	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	03/09/98	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND

Table A-2-2
Results of PAH, OCP, PCB, Chlorinated Herbicide, and VOC Analyses
Landfill 8
Presidio of San Francisco, California

Well Name	Sample Date	All PAHs	All OCPs and PCBs	All Chlorinated Herbicides	VOCs				
					Dichloro-methane	MTBE	PCE	Toluene	All Other VOCs
	Analytical Method[1]	SW8310	SW8081/ SW8081A/ SW8082	SW8151/ SW8151A	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		--	--	--	**4.7**	**13**	**0.8**	**0.5**	--
LF08GW04	03/24/97	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	12/19/96	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	09/10/96	ND	ND	ND	< 4.5	NA	< 0.5	1	ND
	03/18/96	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	11/29/95	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	09/20/95	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	06/07/95	ND	ND	ND	< 5	NA	< 5	< 5	ND
	03/23/95	ND	ND	ND	< 5	NA	< 5	< 5	ND
	12/16/94	ND	ND	ND	< 5	NA	< 5	< 5	ND
	09/23/94	ND	ND	ND	< 5	NA	< 5	< 5	ND
LF08GW06	03/06/07	ND	ND	NA	< 4	< 0.5	< 0.5	< 0.5	ND
	03/17/06	ND	ND	NA	< 4	< 0.5	< 0.5	< 0.5	ND
	03/16/05	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	03/11/04	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	08/20/03	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	06/10/03	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	03/13/03	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	06/05/02	ND	ND	NA	< 4 UJ	< 0.5	< 0.5	< 0.5	ND
	03/12/02	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	05/10/01	ND	ND	ND	< 5	< 0.5	< 0.5 UJ	< 0.5 UJ	ND
	05/21/99	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	02/25/99	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	12/14/98	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	03/10/98	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	03/27/97	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Cleanup levels taken from Table 4-5 of the *Supplemental Information for The Draft Landfill 8 and 10 FS Report* (EKI, 2006).
µg/L - micrograms per liter
NA - not analyzed
ND - not detected
PAHs - polycyclic aromatic hydrocarbons
OCPs - organochlorine pesticides
PCE - tetrachloroethylene
PCBs - polychlorinated biphenyls
VOC - volatile organic compound
MTBE - methyl tert-butyl ether
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-2-3
Results of Dissolved Metals Analyses
Landfill 8
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [2]		**--**	**6**	**10**	**1,000**	**4**	**1.1**	**--**	**50**	**--**	**11.8**	**--**	**3.2**	**--**	**--**	**0.012**	**100**	**--**	**5**	**4.1**	**--**	**1.7**	**--**	**106**	**--**
LF08GW01	03/06/07	< 100	< 1	< 5	290	< 2	< 1	36,000	< 10	< 10	< 1	< 100	< 3	34,000	< 10	< 0.2	< 20	1,300	< 5	< 1	140,000	< 1	< 10	< 20	640
	03/17/06	< 100	< 1	< 5	310	< 2	< 1	43,000	< 10	< 10	< 1	< 100	< 3	28,000 J	< 10	< 0.2	< 20	1,700 J-	< 5	< 1	150,000	< 1	< 10	< 20	790
	03/15/05	< 100	< 1	< 5	240	< 2	< 1	34,000	< 10	< 10	< 1	< 100	< 3	29,000	< 10	< 0.2	< 20	1,300	< 5	< 1	130,000	< 1	< 10	< 20	560
	03/11/04	< 100	< 1	< 5	250	< 2	< 1	35,000	< 10	< 10	< 1	120	< 3	27,000	18	< 0.2	< 20	1,300	< 5	< 1 UJ	120,000	< 1	< 10	< 20	470
DUP0311041A	03/11/04	< 100	< 1	< 5	260	< 2	< 1	37,000	< 10	< 10	< 1	120	< 3	28,000	17	< 0.2	< 20	1,300	< 5	< 1 UJ	130,000	< 1	< 10	< 20	520
LF08GW01CL	03/11/04	< 100	< 5	< 5	240	< 1	< 1	35,000	< 10	< 7	< 10	< 500	< 3	27,000	16	< 0.2	< 10	1,300	< 5	< 1	120,000	< 2	< 10	< 20	530
	08/20/03	< 100	< 1	< 5	230	< 2	< 1	27,000	< 10	< 10	< 1	110	< 3	26,000	15	< 0.2	< 20	1,200	< 5	< 1 UJ	120,000	< 1	< 10	< 20 UJ	590
DUP0820031A	08/20/03	< 100	< 1	< 5	220	< 2	< 1	27,000	< 10	< 10	< 1	220	< 3	26,000	16	< 0.2	< 20	1,300	< 5	< 1 UJ	120,000	< 1	< 10	< 20 UJ	600
LF08GW01CL	08/20/03	1,200 J+	< 5	< 5	240	< 1	< 1	28,000	< 10	< 7	< 10	< 500 UJ	< 3	26,000	18	< 0.2	12	1,600	< 5	< 1	130,000	< 2	< 10	< 20	620 J
	03/13/03	< 100	< 1	< 1	210	< 1	< 1	25,000	3.6	< 1	< 1	< 100	< 3	23,000	19	< 0.2	13	1,400	< 5	< 1 UJ	120,000 J-	< 1	< 10	< 10	540
	08/27/02	< 100	< 1	< 1	540	< 1	< 1	30,000	5.3 J	< 1	< 1	< 100	< 3	26,000	< 10	< 0.2	23	1,600	< 5	< 1 UJ	140,000	< 1	< 10	**140**	520
DUP0827021A	08/27/02	< 100	< 1	< 1	270	< 1	< 1	29,000	5.1 J	< 1	< 1	< 100	< 3	26,000	< 10	< 0.2	22	1,500	< 5	< 1 UJ	140,000	< 1	< 10	19	580
LF08GW01CL	08/27/02	< 200	0.3 B	< 2	330	< 1	< 1	29,000	< 0.92 J,U	0.3 B	< 0.056 BJ,U	67 J	< 5	24,000	5.4	< 0.2	24	1,600	< 5	< 1	130,000	< 1	1.3 J	47	550 J
	03/12/02	< 100	< 1	< 1	430	< 1	< 1	28,000	4.9	< 1	1.1	< 100	< 3	25,000	< 10	< 0.2	16	1,800	< 5	< 1 UJ	130,000	< 1	< 10	**140**	490
	09/04/01	< 100	1.9	< 1	600 J+	< 1	< 1	31,000	8.8	< 1	1.2	200	< 3	26,000	14	< 0.2	59 J	1,400	< 5	< 1 UJ	140,000	< 1	< 10	**160**	NA [2]
	05/16/01	< 100	1.8	< 1	670	< 1	< 1	< 500 R	9.7 J	< 1	1.1	300	< 3	24,000	20	< 0.2	71	1,700 J	< 5	< 1	130,000	< 1	< 10	**180**	530
	06/15/00	< 100	< 5	< 5	153	< 2	< 2	32,600	< 10 (U1)	< 10	< 10	< 100 (U1)	< 3	21,500	46.4	< 0.2	**167**	< 5,000	< 5	< 2	139,000	< 2	< 10	< 20	826
	01/12/00	< 100	< 5	< 5	167	< 2	< 2	26,900	< 10	< 10	< 10	130	< 3	19,800	10.8	< 0.2	**164**	< 5,000	< 5	< 2	127,000	< 2	< 10	< 20	532
	08/30/99	< 100	< 5	< 5	156	< 2	< 2	25,200	< 10	< 10	< 10	< 100	< 3	15,700	< 10	NA	75.5	< 5,000	< 5	< 2	136,000	< 2	< 10	< 20	501
	02/24/99	< 100	< 5	< 5	158	< 4	< 2	21,700	10.4	< 10	< 10	< 100	< 3	16,100	10.1	< 0.2	44.8	< 5,000	< 5	< 2	117,000	< 2	< 10	< 20	476
	08/19/98	< 100	< 5	< 5	129	< 4	< 2	21,500	< 10	< 10	**12.8**	< 100	< 3	14,100	12.6	< 0.2	**136**	< 5,000	< 5	< 2	118,000	< 2	< 10	< 20	445
	06/02/98	< 100	< 5	< 5	137	< 4	< 2	22,900	< 10	< 10	10	< 100	< 3	14,300	< 10	< 0.2	85.2	< 5,000	< 5	< 2	127,000	< 2	< 10	26.9	502
	03/09/98	< 100	< 5	< 5	135	< 4	< 2	20,300	< 10	< 10	< 10	< 100	< 3	13,600	< 10	< 0.2	34.6	< 5,000	< 5	< 2	114,000	< 2	< 10	< 20	476
	12/11/97	< 100	< 5	< 5	141	< 4	< 2	18,000	< 10	< 10	< 10	< 100	< 3	16,300	< 10	< 0.2	94.1	< 5,000	< 5	< 2	101,000	< 2	< 10	< 20	429
	09/10/97	< 100	< 5	< 5	129	< 4	< 2	20,200	< 10	< 10	< 10	< 100	< 3	15,100	< 10	< 0.2	**217**	< 5,000	< 5	< 2	116,000	< 2	< 10	< 20	457
	06/25/97	< 100	< 5	< 5	130	< 4	< 2	22,000	< 10	< 10	< 10	< 100	< 3	14,600	< 10	< 0.2	**267**	< 5,000	< 5	< 2	124,000	< 2	< 10	**212**	416
	03/27/97	< 100	< 5	< 5	138	< 4	< 2	19,700	< 10	< 10	< 10	< 100	< 3	13,300	14.3	< 0.2	< 20	< 5,000	< 5	< 2	119,000	< 2	< 10	< 20	469
	12/20/96	< 100	< 5	< 5	168	< 4	< 2	17,800	< 10	< 10	< 10	< 100	< 3	18,700	33.5	< 0.2	< 20	< 5,000	< 5	< 2	95,300	< 2	< 10	< 20	431
	09/11/96	111	< 5	< 5	127	< 2	< 0.5	15,200	2.3	< 10	1.6	225	< 1	14,800	144	< 0.2	5	< 5,000	< 5	< 0.5	101,000	< 2	< 10	< 20	521
	06/03/96	< 100	< 5	< 5	18	< 2	< 0.5	41,700	**50.7**	< 10	< 1	< 100	< 1	30,400	< 10	< 0.2	< 5	< 5,000	< 5	< 0.5	36,900	< 2	< 10	32.8	480
	03/15/96	590	< 5	5.5	155	< 2	< 0.5	17,300	16	< 10	**72.7**	942	**3.8**	16,200	330	< 0.2	56.7	< 5,000	< 5	< 0.5	97,600	< 2	< 10	< 20	490
	11/28/95	140	< 5	< 5	130	< 2	< 0.5	15,500	3.7	< 10	1.9	220	< 1	15,400	150	< 0.2	5.2	< 5,000	< 5	< 0.5	98,100	< 2	< 10	< 20	426
	09/19/95	130	< 60	< 5	120	< 2	< 5	15,600	< 10	< 10	< 20	220	< 1	13,700	190	< 0.2	< 40	< 5,000	< 5	< 10	100,000	< 2	< 10	< 20	470
	06/05/95	< 100	< 60	< 5	150	< 2	< 5	21,900	< 10	< 10	< 20	< 100	< 3.2	16,400	310	< 0.2	< 40	< 5,000	< 5 (U27)	< 10	111,000	< 5 (U27)	< 10	**120**	516
	03/08/95	310	< 60	< 5	130	< 2	< 5	17,300	< 10	< 10	< 20	380	< 3.2	17,000	440	< 0.2	58	< 5,000	< 5	< 10	108,000	< 5 (U9)	< 10	< 20	431
	12/15/94	< 100	< 60	< 5	130	< 2	< 5	17,800	< 10	< 10	< 20	< 100	< 5	15,500	190	< 0.2	< 40	< 5,000	< 5 (U27)	< 10	108,000	< 5 (U27)	< 10	< 20	412
	09/23/94	< 100	NA	< 5	170	NA	NA	18,300	< 10	< 10	< 20	< 100	< 3.2	20,300	120	< 0.2	< 40	< 5,000	< 5 (U27)	NA	102,000	< 5 (U27)	< 10	< 20	496
LF08GW02B	03/06/07	< 100	< 1	< 5	43	< 2	< 1	23,000	34	< 10	< 1	< 100	< 3	32,000	< 10	< 0.2	< 20	610	< 5	< 1	33,000	< 1	10	< 20	330
	03/16/06	< 100 UJ	< 1	< 5	41	< 2	< 1	22,000	33	< 10	< 1	< 100	< 3	30,000	< 10	< 0.2	< 20	890	< 5	< 1	32,000 J	< 1	< 10	< 20	430 J
	03/15/05	< 100	< 1	< 5	41	< 2	< 1	21,000	37	< 10	< 1	< 100	< 3	31,000	< 10	< 0.2	< 20	500	< 5	< 1	35,000	< 1	< 10	< 20	360
	03/11/04	< 100	< 1	< 5	40	< 2	< 1	25,000	36	< 10	< 1	< 100	< 3	31,000	< 10	**0.24**	< 20	600	< 5	< 1 UJ	37,000	< 1	< 10	< 20	240
	08/20/03	< 100	< 1	< 5	45	< 2	< 1	22,000	28	< 10	< 1	170	< 3	29,000	< 10	< 0.2	< 20	1,700	< 5	< 1 UJ	35,000	< 1	< 10	< 20 UJ	390
	03/13/03	< 100	< 1	1.6	34	< 1	< 1	26,000	34	< 1	< 1	< 100	< 3	29,000	< 10	< 0.2	2.4	620	< 5	< 1 UJ	37,000 J-	< 1	< 10	< 10	340
	08/27/02	< 100	< 1	1.3	270	< 1	< 1	23,000	32 J	< 1	< 1	< 100	< 3	30,000	< 10	< 0.2	4	900	< 5	< 1 UJ	37,000	< 1	< 10	92	310
	03/12/02	< 100	1.1	1.9	440	< 1	< 1	26,000	39	< 1	< 1	< 100	< 3	30,000	< 10	< 0.2	3.3	750	< 5	< 1 UJ	40,000	< 1	< 10	**120**	290
	09/05/01	< 100	1.6	2.2	390 J+	< 1	< 1	32,000	37	< 1	1.1	140	< 3	31,000	< 10	< 0.2	3.1	970	< 5	< 1 UJ	39,000	< 1	< 10	58	310
	05/16/01	< 100	1.5	2.2	460	< 1	< 1	< 500 R	41 J	< 1	< 1	190	< 3	30,000	< 10	< 0.2	2.9	840 J	< 5	< 1	39,000	< 1	< 10	**110**	350
	06/15/00	< 100	< 5	< 5	34.7	< 2	< 2	25,800	40.5	< 10	< 10	< 100	< 3	28,800	< 10	< 0.2	< 20	< 5,000	< 5 (U1)	< 2	33,500	< 2	< 10	< 20	344
	01/12/00	< 100	< 5	< 5	31.1	< 2	< 2	26,500	**51.6**	< 10	< 10	< 100	< 3	27,900	< 10	< 0.2	< 20	< 5,000	< 5	< 2	33,700	< 2	< 10	< 20	327

Table A-2-3
Results of Dissolved Metals Analyses
Landfill 8
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [2]		**--**	**6**	**10**	**1,000**	**4**	**1.1**	**--**	**50**	**--**	**11.8**	**--**	**3.2**	**--**	**--**	**0.012**	**100**	**--**	**5**	**4.1**	**--**	**1.7**	**--**	**106**	**--**
LF08GW02B	08/31/99	< 100	< 5	< 5	35.6	< 2	< 2	26,800	37.5	< 10	< 10	< 100	< 3	28,900	< 10	NA	< 20	< 5,000	< 5	< 2	34,200	< 2	< 10	< 20	323
	02/25/99	< 100	< 5	< 5	35.2	< 4	< 2	26,500	41.8	< 10	< 10	< 100	< 3	27,800	< 10	< 0.2	< 20	< 5,000	< 5	< 2	34,000	< 2	< 10	< 20	316
	08/20/98	< 100	< 5	< 5	33.4	< 4	< 2	26,900	34.8	< 10	11	< 100	< 3	25,100	< 10	< 0.2	< 20	< 5,000	< 5	< 2	35,600	< 2	< 10	< 20	303
	06/03/98	< 100	< 5	< 5	34.6	< 4	< 2	27,500	38.3	< 10	< 10	< 100	< 3	26,800	< 10	< 0.2	< 20	< 5,000	< 5	< 2	43,900	< 2	< 10	< 20	337
	03/10/98	< 100	< 5	< 5	39.7	< 4	< 2	29,100	50	< 10	< 10	< 100	< 3	30,000	< 10	< 0.2	< 20	5,500	< 5	< 2	34,000	< 2	< 10	< 20	346
	12/15/97	< 100	< 5	< 5	23.2	< 4	< 2	28,500	43.4	< 10	< 10	< 100	< 3	24,700	< 10	< 0.2	< 20	< 5,000	< 5	< 2	33,100	< 2	< 10	< 20	296
	09/11/97	< 100	< 5	< 5	29.6	< 4	< 2	30,400	38.5	< 10	< 10	< 100	< 3	27,100	< 10	< 0.2	< 20	< 5,000	< 5	< 2	31,500	< 2	< 10	< 20	343
	06/24/97	< 100	< 5	< 5	29.8	< 4	< 2	31,900	43.1	< 10	< 10	< 100	< 3	28,300	< 10	< 0.2	< 20	< 5,000	< 5	< 2	34,400	< 2	< 10	< 20	376
	03/25/97	< 100	< 5	< 5	18.5	< 4	< 2	33,400	44.7	< 10	< 10	< 100	< 3	24,700	< 10	< 0.2	< 20	< 5,000	< 5	< 2	34,600	< 2	< 10	< 20	349
	12/23/96	< 100	< 5	< 5	19.5	< 4	< 2	31,100	41.6	< 10	< 10	< 100	< 3	24,800	< 10	< 0.2	< 20	< 5,000	< 5	< 2	30,300	< 2	< 10	< 20	342
	09/11/96	< 100	< 5	< 5	< 10	< 2	< 0.5	35,600	29.2	< 10	< 1	< 100	< 1	20,900	< 10	< 0.2	< 5	< 5,000	< 5	< 0.5	35,600	< 2	< 10	< 20	334
	06/03/96	< 100	< 5	< 5	19.2	< 2	< 0.5	43,700	**58.4**	< 10	< 1	< 100	< 1	32,000	< 10	< 0.2	< 5	< 5,000	< 5	< 0.5	39,000	< 2	< 10	34.2	377
	03/15/96	< 100	< 5	< 5	< 10	< 2	< 0.5	32,600	35.7	< 10	1.1	< 100	1	17,800	< 10	< 0.2	< 5	< 5,000	< 5	< 0.5	34,400	< 2	< 10	< 20	299
	11/28/95	< 100	< 5	< 5	< 10	< 2	< 0.5	32,300	30	< 10	1.6	< 100	1.4	15,700	< 10	< 0.2	8.3	< 5,000	< 5	< 0.5	32,800	< 2	< 10	< 20	324
	09/19/95	< 100	< 60	< 5	< 10	< 2	< 5	39,300	26	< 10	< 20	< 100	< 1	20,500	< 10	< 0.2	< 40	< 5,000	< 5	< 10	40,200	< 2	< 10	< 20	372
	06/06/95	< 100	< 60	< 5	< 10	< 2	< 5	37,600	26	< 10	< 20	< 100	< 3.2	21,300	< 10	< 0.2	< 40	5,800	< 5 (U27)	< 10	45,000	< 5	< 10	< 20	320
	03/23/95	< 100	< 60	< 5	< 10	< 2	< 5	26,400	30	< 10	< 20	< 100	< 3.2	2,400	< 10	< 0.2	< 40	16,400	< 5	< 10	53,700	< 5 (U27)	21	< 20	214
	12/16/94	< 100	< 60	5.4	< 10	< 2	< 5	30,400	23	< 10	< 20	< 100	< 5	4,700	< 10	< 0.2	< 40	10,700	< 5	< 10	57,300	< 5 (U27)	12	< 20	266
	09/26/94	< 100	NA	< 5	11	NA	NA	37,400	20	< 10	< 20	< 100	< 3.2	15,600	< 10	< 0.2	< 40	9,400	< 5	NA	56,200	< 5 (U27)	< 10	< 20	303
LF08GW03	03/06/07	< 100	< 1	< 5	140	< 2	< 1	21,000	24	< 10	< 1	< 100	< 3	54,000	< 10	< 0.2	< 20	580	< 5	< 1	58,000	< 1	< 10	< 20	430
	03/16/06	< 100 UJ	< 1	< 5	140	< 2	< 1	20,000	23	< 10	< 1	< 100	< 3	52,000	< 10	< 0.2	< 20	610	< 5	< 1	59,000 J	< 1	< 10	< 20	550 J
	03/18/05	< 100	< 1	< 5	140	< 2	< 1	20,000	22	< 10	< 1	< 100	< 3	51,000	< 10	< 0.2	< 20	630	< 5	< 1	61,000	< 1	< 10	< 20	470
	03/11/04	< 100	< 1	< 5	130	< 2	< 1	21,000	22	< 10	< 1	< 100	< 3	51,000	< 10	< 0.2	< 20	680	< 5	< 1 UJ	61,000	< 1	< 10	< 20	440
	08/20/03	< 100	< 1	< 5	130	< 2	< 1	19,000	22	< 10	< 1	150	< 3	54,000	< 10	**0.25**	< 20	500	< 5	< 1 UJ	62,000	< 1	< 10	< 20 UJ	520
	03/13/03	< 100	< 1	< 1	130	< 1	< 1	19,000	22	< 1	< 1	< 100	< 3	49,000	< 10	< 0.2	< 1	520	< 5	< 1 UJ	59,000 J-	< 1	< 10	< 10	460
	08/27/02	< 100	< 1	< 1	360	< 1	< 1	20,000	24 J	< 1	< 1	< 100	< 3	52,000	< 10	< 0.2	1.7	670	< 5	< 1 UJ	62,000	< 1	< 10	77	460
	03/12/02	< 100	< 1	1	590	< 1	< 1	22,000	23	< 1	< 1	< 100	< 3	56,000	< 10	< 0.2	< 1	740	< 5	< 1 UJ	65,000	< 1	< 10	**150**	430
	09/04/01	< 100	2.7	1.1	600 J+	< 1	< 1	24,000	27	< 1	1	120	< 3	60,000	< 10	< 0.2	3	610	< 5	< 1 UJ	67,000	< 1	< 10	**120**	NA [2]
	05/16/01	< 100	1	1.2	< 21	< 1	< 1	< 500 R	28 J	< 1	< 1	270	< 3	< 10,000	< 10	< 0.2	1.4	770 J	< 5	< 1	< 10,000	< 1	< 10	**120**	450
	06/15/00	< 100	< 5	< 5	140	< 2	< 2	22,400	29.6	< 10	< 10 (U1)	< 100 (U1)	< 3	56,100	< 10	< 0.2	< 20	< 5,000	< 5 (U1)	< 2	62,200	< 2	< 10	< 20	507
	01/12/00	< 100	< 5	< 5	140	< 2	< 2	22,000	31.3	< 10	< 10	< 100	< 3	55,600	< 10	< 0.2	< 20	< 5,000	< 5	< 2	59,900	< 2	< 10	< 20	485
	08/31/99	< 100	< 5	< 5	145	< 2	< 2	22,400	28	< 10	< 10	< 100	< 3	57,000	< 10	NA	< 20	< 5,000	< 5	< 2	62,900	< 2	< 10	< 20	502
	02/25/99	< 100	< 5	< 5	144	< 4	< 2	20,900	28.5	< 10	< 10	< 100	< 3	54,600	< 10	< 0.2	< 20	< 5,000	< 5	< 2	62,900	< 2	< 10	< 20	490
	08/20/98	< 100	< 5	< 5	135	< 4	< 2	20,800	25.5	< 10	11.8	< 100	< 3	52,500	< 10	< 0.2	< 20	< 5,000	< 5	< 2	58,500	< 2	< 10	< 20	475
	06/03/98	< 100	< 5	< 5	138	< 4	< 2	21,600	23.9	< 10	< 10	< 100	< 3	54,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	61,900	< 2	< 10	< 20	470
	03/10/98	< 100	< 5	< 5	132	< 4	< 2	21,400	32.3	< 10	< 10	< 100	< 3	53,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	61,300	< 2	< 10	< 20	326
	12/15/97	< 100	< 5	< 5	141	< 4	< 2	21,000	27	< 10	< 10	< 100	< 3	53,500	< 10	< 0.2	< 20	< 5,000	< 5	< 2	62,200	< 2	< 10	77.5	462
	09/11/97	< 100	< 5	< 5	132	< 4	< 2	20,500	26.7	< 10	< 10	< 100	< 3	51,900	< 10	< 0.2	< 20	< 5,000	< 5	< 2	59,000	< 2	< 10	< 20	487
	06/24/97	< 100	< 5	< 5	141	< 4	< 2	21,300	28.2	< 10	< 10	< 100	< 3	53,800	< 10	< 0.2	< 20	< 5,000	< 5	< 2	61,600	< 2	< 10	< 20	458
	03/26/97	< 100	< 5	< 5	134	< 4	< 2	20,100	28	< 10	< 10	< 100	< 3	51,900	< 10	< 0.2	< 20	< 5,000	< 5	< 2	60,000	< 2	< 10	< 20	489
	12/20/96	< 100	< 5	< 5	123	< 4	< 2	19,700	27.5	< 10	< 10	< 100	< 3	49,900	< 10	< 0.2	< 20	< 5,000	< 5	< 2	56,400	< 2	< 10	< 20	482
	09/10/96	< 100	< 5	< 5	134	< 2	< 0.5	20,500	24.8	< 10	< 1	< 100	< 1	52,400	< 10	< 0.2	< 5	< 5,000	< 5	< 0.5	61,500	< 2	< 10	< 20	466
	03/18/96	< 100	< 5	< 5	129	< 2	< 0.5	22,500	29.4	< 10	2.4	< 100	< 1	53,500	< 10	< 0.2	7.3	< 5,000	< 5	< 0.5	59,300	< 2	< 10	< 20	500
	11/29/95	210	< 5	< 5	130	< 2	< 0.5	20,700	26	< 10	1.2	360	< 1	52,700	31	**0.27**	< 5	< 5,000	< 5	< 0.5	58,600	< 2	< 10	21	498
	09/18/95	< 100	< 60	< 5	130	< 2	< 5	20,700	26	< 10	< 20	< 100	< 1	53,300	< 10	**3.2**	< 40	< 5,000	< 5	< 10	59,800	< 2	< 10	< 20	539
	06/07/95	< 100	< 60	< 5	130	< 2	< 5	22,400	22	< 10	< 20	< 100	< 3.2	55,100	< 10	< 0.2	< 40	< 5,000	< 5 (U27)	< 10	61,200	< 5 (U27)	< 10	< 20	493
	03/24/95	< 100	< 60	< 5	110	< 2	< 5	24,000	28	< 10	< 20	< 100	< 3.2	53,100	< 10	< 0.2	< 40	< 5,000	5 (U27, U	< 10	63,800	< 25 (U27, U9)	< 10	< 20	462
	12/14/94	< 100	< 60	< 5	140	< 2	< 5	22,700	31	< 10	< 20	< 100	< 5	57,800	< 10	< 0.2	< 40	< 5,000	< 5 (U27)	< 10	63,200	< 50 (U27)	< 10	< 20	492
	09/26/94	< 100	NA	< 5	100	NA	NA	21,100	29	< 10	< 20	< 100	< 3.2	52,600	< 10	< 0.2	< 40	< 5,000	< 25	NA	60,300	< 5 (U27)	< 10	< 20	454

Table A-2-3
Results of Dissolved Metals Analyses
Landfill 8
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [2]		--	**6**	**10**	**1,000**	**4**	**1.1**	--	**50**	--	**11.8**	--	**3.2**	--	--	**0.012**	**100**	--	**5**	**4.1**	--	**1.7**	--	**106**	--
LF08GW04	03/07/07	< 100	2	< 5	36	< 2	< 1	36,000	< 10	< 10	< 1	110	< 3	17,000	< 10	< 0.2	< 20	2,900 J	< 5	< 1	29,000	< 1	< 10	< 20	290
DUP0307073A	03/07/07	< 100	< 1	< 5	36	< 2	< 1	36,000	< 10	< 10	< 1	< 100	< 3	17,000	< 10	< 0.2	< 20	3,000 J	< 5	< 1	30,000	< 1	< 10	< 20	270
	03/16/06	< 100 UJ	< 1	< 5	16	< 2	< 1	32,000	< 10	< 10	< 1	< 100	< 3	5,300	< 10	< 0.2	< 20	2,700	< 5	< 1	15,000 J	< 1	< 10	< 20	280 J
DUP0316064A	03/16/06	< 100 UJ	< 1	< 5	17	< 2	< 1	32,000	< 10	< 10	< 1	< 100	< 3	5,300	< 10	< 0.2	< 20	2,700	< 5	< 1	16,000 J	< 1	< 10	< 20	140 J
	03/17/05	< 100	< 1	< 5	14	< 2	< 1	30,000	< 10	< 10	< 1	< 100	< 3	9,300	< 10	< 0.2	< 20	2,500	< 5	< 1	10,000	< 1	< 10	< 20	170 J-
DUP0317052A	03/17/05	< 100	< 1	< 5	15	< 2	< 1	31,000	< 10	< 10	< 1	< 100	< 3	9,500	< 10	< 0.2	< 20	2,500	< 5	< 1	10,000	< 1	< 10	< 20	170 J-
LF08GW04CL	03/17/05	< 100 U	< 2 U	< 2 U	15.3	< 1 U	< 1 U	31,200	< 10 U	< 1 U	< 2 U	< 100 U	< 1 U	9,340	< 10 U	< 0.2 U	2.86	< 5,000 UN	< 2 U	< 1 U	10,400 J	< 1 U	< 10 U	< 20 U	170
	03/11/04	< 100	< 1	< 5	21	< 2	< 1	46,000	< 10	< 10	< 1	140	< 3	6,600	< 10	< 0.2	< 20	3,500	< 5	< 1 UJ	12,000	< 1	< 10	< 20	130
	08/20/03	< 100	< 1	< 5	35	< 2	< 1	31,000	< 10	< 10	< 1	250	< 3	16,000	< 10	< 0.2	< 20	1,800	< 5	< 1 UJ	26,000	< 1	< 10	< 20 UJ	320
	03/13/03	< 100	< 1	< 1	18	< 1	< 1	23,000	2.6	< 1	< 1	< 100	< 3	6,000	< 10	< 0.2	3.3	2,300	< 5	< 1 UJ	14,000 J-	< 1	< 10	< 10	200
DUP0313031A	03/13/03	< 100	< 1	< 1	16	< 1	< 1	23,000	2.8	< 1	< 1	< 100	< 3	6,100	< 10	< 0.2	3.4	2,300	< 5	< 1 UJ	13,000 J-	< 1	< 10	< 10	190
LF08GW04CL	03/13/03	< 100	< 5	3	17	< 1	< 1	24,000	6.6	< 1	< 5	< 500	< 3	6,100	< 5	< 0.2	< 5	2,800	< 5	< 1	17,000	< 2	< 10	23	170
	08/28/02	< 100	< 1	< 1	340	< 1	< 1	51,000	1.5 J	< 1	1.4	< 100	< 3	27,000	< 10	< 0.2	10	2,100	< 5	< 1 UJ	34,000	< 1	< 10	**130**	410
	03/14/02	< 100	1.8	< 1	470	< 1	< 1	39,000	2.7	< 1	1.1	130	< 3	5,400	< 10	< 0.2	3.4	2,600	< 5	< 1 UJ	14,000	< 1	< 10	**150**	170
	09/04/01	< 100	1.9	< 1	400 J+	< 1	< 1	50,000	2.8	< 1	1.8	220	< 3	23,000	< 10	< 0.2	15 J	1,500	< 5	< 1 UJ	29,000	< 1	< 10	**230**	NA
DUP0904013A	09/04/01	< 100	1.2	< 1	180 J+	< 1	< 1	49,000	2.2	< 1	1.6	240	< 3	24,000	< 10	**0.35**	15 J	2,000	< 5	< 1 UJ	26,000	< 1	< 10	46	NA
LF08GW04CL	09/04/01	< 200	0.64 J	< 2	130	< 1	< 1	41,000	< 2	0.59 J	1.8 J	< 200	< 5	21,000	< 5	< 0.2	14	2,100	< 5	< 1	23,000	< 1	< 5	18	360
	05/16/01	< 100	1.6	< 1	**2,500**	< 1	< 1	< 500 R	< 1 UJ	< 1	1.4	230	< 3	9,200	< 10	< 0.2	4.6	1,000 J	< 5	< 1	18,000	< 1	< 10	< 210	180
LF08GW04CL	05/16/01	220	< 2	< 2	100	< 1	< 1	19,000	4.8	< 1	< 2	< 200	< 5	9,400	< 5	< 0.2	4.2	1,500	< 5	< 1	18,000	< 1	< 5	35	160
	06/19/00	< 100	< 5	< 5	< 10	< 2	< 2	8,350	< 10 (U1)	< 10	< 10	< 100 (U1)	< 3	3,990	< 10	< 0.2	< 20	< 5,000	< 5	< 2	32,900	< 2	< 10	**160**	102
	01/12/00	< 100	< 5	< 5	56.4	< 2	< 2	36,900	< 10	< 10	< 10	< 100	< 3	18,000	110	< 0.2	< 20	< 5,000	< 5	< 2	33,600	< 2	< 10	< 20	307
	08/31/99	< 100	< 5	< 5	52.1	< 2	< 2	31,700	< 10	10.7	< 10	< 100	< 3	15,300	1,740	NA	55.5	< 5,000	< 5	< 2	30,900	< 2	< 10	< 20	266
	02/24/99	< 100	< 5	< 5	29.9	< 4	< 2	54,000	< 10	< 10	< 10	< 100	< 3	8,580	837	< 0.2	< 20	< 5,000	< 5	< 2	20,400	< 2	< 10	< 20	270
	08/19/98	< 100	< 5	< 5	42.3	< 4	< 2	23,200	< 10	< 10	< 10	< 100	< 3	10,600	13.5	< 0.2	< 20	< 5,000	< 5	< 2	24,600	< 2	< 10	< 20	188
	06/02/98	< 100	< 5	< 5	24	< 4	< 2	26,500	< 10	< 10	< 10	< 100	< 3	7,090	< 10	< 0.2	< 20	< 5,000	< 5	< 2	14,700	< 2	< 10	< 20	297
	03/09/98	102	< 5	< 5	15.1	< 4	< 2	22,700	< 10	< 10	< 10	103	< 3	4,700	< 10	< 0.2	< 20	< 5,000	< 5	< 2	11,100	< 2	< 10	< 20	179
	12/11/97	< 100	< 5	< 5	83.1	< 4	< 2	111,000	< 10	< 10	< 10	< 100	< 3	29,800	< 10	< 0.2	< 20	5,600	< 5	< 2	23,700	< 2	< 10	< 20	439
	09/10/97	< 100	< 5	< 5	65.7	< 4	< 2	37,200	< 10	< 10	< 10	< 100	< 3	17,200	< 10	< 0.2	< 20	< 5,000	< 5	< 2	26,600	< 2	< 10	< 20	330
	06/23/97	280	< 5	< 5	47.4	< 4	< 2	26,100	< 10	< 10	< 10	< 100	< 3	11,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	23,600	< 2	< 10	< 20	235
	03/24/97	< 100	< 5	< 5	18.7	< 4	< 2	20,500	< 10	< 10	< 10	< 100	< 3	4,870	< 10	< 0.2	< 20	< 5,000	< 5	< 2 (U9)	13,800	< 2	< 10	< 20	125
	12/19/96	< 100	< 5	< 5	52.6	< 4	< 2	33,100	< 10	< 10	< 10	< 100	< 3	11,100	< 10	< 0.2	< 20	< 5,000	< 5	< 2	30,900	< 2	< 10	41.8	247
	09/10/96	< 100	< 5	< 5	135	< 2	< 0.5	20,800	25.4	< 10	< 1	< 100	< 1	52,500	< 10	< 0.2	< 5	< 5,000	< 5	< 0.5	61,500	< 2	< 10	< 20	238
	03/18/96	< 100	< 5	< 5	20	< 2	< 0.5	33,000	6.5	< 10	5.8	< 100	1.2	3,880	< 10	< 0.2	12.9	< 5,000	< 5	< 0.5	17,400	< 2	< 10	< 20	188
	11/29/95	< 100	< 5	< 5	15	< 2	< 0.5	27,500	1.9	< 10	< 1	170	< 1	8,500	31	< 0.2	6.7	< 5,000	< 5	< 0.5	20,900	< 2	< 10	< 20	258
	09/20/95	< 100	< 60	< 5	25	< 2	< 5	25,000	< 10	< 10	< 20	< 100	< 1	8,700	< 10	< 0.2	< 40	< 5,000	< 5	< 10	22,300	< 2	< 10	< 20	236
	06/07/95	< 100	< 60	< 5	25	< 2	< 5	33,100	< 10	< 10	< 20	< 100	< 3.2	5,000	< 10	< 0.2	< 40	< 5,000	< 5	< 10	14,000	< 5	< 10	< 20	187
	03/23/95	< 100	< 60	< 5	17	< 2	< 5	35,500	< 10	< 10	< 20	< 100	< 3.2	3,000	< 10	< 0.2	< 40	< 5,000	< 5	< 10	15,100	< 5	< 10	52	153
	12/16/94	< 100	< 60	< 5	45	< 2	< 5	83,100	< 10	< 10	< 20	< 100	< 5	9,300	< 10	< 0.2	< 40	< 5,000	< 5	< 10	11,400	< 5	< 10	< 20	348
	09/23/94	< 100	NA	< 5 (U26)	< 10	NA	NA	14,300	< 10	< 10	< 20	< 100	< 3.2	5,700	12	< 0.2	< 40	< 5,000	< 5	NA	< 5,000	< 5	< 10	< 20	342
LF08GW06	03/06/07	< 100	< 1	< 5	39	< 2	< 1	23,000	< 10	< 10	< 1	< 100	< 3	23,000	< 10	< 0.2	< 20	2,100	< 5	< 1	130,000	< 1	< 10	< 20	630
	03/17/06	< 100	< 1	< 5	46	< 2	< 1	23,000	< 10	< 10	< 1	< 100	< 3	22,000 J	< 10	< 0.2	< 20	4,600 J-	< 5	< 1	140,000	< 1	< 10	< 20	600
	03/16/05	< 100	< 1	< 5	68	< 2	< 1	33,000	< 10	< 10	< 1	< 100	< 3	34,000	< 10	< 0.2	< 20	2,700	< 5	< 1	160,000	< 1	< 10	< 20	730
	03/11/04	< 100	< 1	< 5	81	< 2	< 1	48,000	< 10	< 10	< 1	150	< 3	37,000	< 10	< 0.2	< 20	2,400	< 5	< 1 UJ	170,000	< 1	< 10	< 20	660
	06/10/03	< 100	< 1	< 5	43	< 2	< 1	35,000	< 10	< 10	< 1	< 100	< 3	35,000	< 10	< 0.2	< 20	1,900	< 5	< 1	160,000	< 1	< 10	< 20	720
	03/13/03	< 100	1.3	1.1	50	< 1	< 1	33,000	5.2	< 1	< 1	< 100	< 3	33,000	11	< 0.2	3.7	2,900	< 5	< 1 UJ	150,000 J-	< 1	< 10	29	750
	06/05/02	< 100	< 1	1.6	420	< 1	< 1	38,000	5.1	< 1	1.1	140	< 3	40,000	< 10	< 0.2	2.2	3,400	< 5	< 1	180,000	< 1	< 10	**200**	690
	03/12/02	< 100	< 1	1.5	300	< 1	< 1	39,000	7.1	< 1	1.3	< 100	< 3	40,000	< 10	< 0.2	4.3	4,700	< 5	< 1 UJ	180,000	< 1	< 10	**120**	730
	05/10/01	< 100	1.8	1.6	720	< 1	< 1	37,000	17 J	2.6	5.5 J	380	< 3	40,000	16	< 0.2	19 J	3,500	< 5	< 1 UJ	180,000	< 1	< 10	**240 J**	750 J
	05/21/99	< 100	< 5	< 5	< 10	< 2	< 2	43,200	< 10	< 10	< 10	< 100	< 3	35,600	< 10	< 0.2	< 20	< 5,000	< 5	< 2	169,000	< 2	< 10	< 20	755
	02/25/99	< 100	< 5	< 5	44.3	< 4	< 2	37,700	< 10	< 10	10.7	< 100	**3.3**	31,400	367	< 0.2	< 20	< 5,000	< 5	< 2	175,000	< 2	< 10	< 20	764

Table A-2-3
Results of Dissolved Metals Analyses
Landfill 8
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [2]		**--**	**6**	**10**	**1,000**	**4**	**1.1**	**--**	**50**	**--**	**11.8**	**--**	**3.2**	**--**	**--**	**0.012**	**100**	**--**	**5**	**4.1**	**--**	**1.7**	**--**	**106**	**--**
LF08GW06	03/10/98	< 100	< 5	< 5	57.7	< 4	< 2	48,400	< 10	< 10	< 10	< 100	< 3	32,100	< 10	< 0.2	< 20	7,270	< 5	< 2	175,000	< 2	< 10	< 20	3,800
	09/10/97	< 100	< 5	< 5	33.1	< 4	< 2	61,500	< 10	< 10	< 10	< 100	< 3	33,000	57.8	< 0.2	< 20	5,350	< 5	< 2	178,000	< 2	< 10	24.4	NA
	03/27/97	< 100	< 5	< 5	69.9	< 4	< 2	50,300	< 10	< 10	< 10	< 100	< 3	38,400	< 10	< 0.2	< 20	8,790	< 5	< 2	206,000	< 2	< 10	< 20	878

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Cleanup levels taken from Table 4-5 of the *Supplemental Information for The Draft Landfill 8 and 10 FS Report* (EKI, 2006).
mg/L - milligrams per liter
µg/L - micrograms per liter
NA - not analyzed
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Groundwater samples collected from all site monitoring wells were field filtered and analyzed for dissolved metals.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-2-4
Groundwater Elevation Summary
Landfill 8
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF08GW01	02/26/07	20.81	234.54	213.73	MW
	08/14/06	21.74	234.54	212.80	MW
	05/22/06	17.23	234.54	217.31	MW
	03/06/06	15.34	234.54	219.20	MW
	11/28/05	26.21	234.54	208.33	MW
	08/29/05	22.97	234.54	211.57	MW
	05/23/05	19.32	234.54	215.22	MW
	03/14/05	16.80	234.54	217.74	MW
	12/13/04	28.53	234.54	206.01	MW
	08/09/04	25.93	234.54	208.61	MW
	05/24/04	22.28	234.54	212.26	MW
	03/08/04	18.93	234.54	215.61	MW
	12/01/03	24.91	234.54	209.63	MW
	08/11/03	23.64	234.54	210.90	MW
	06/02/03	21.30	234.54	213.24	MW
	03/10/03	20.64	234.54	213.90	MW
	12/02/02	28.04	234.54	206.50	MW
	08/26/02	25.95	234.54	208.59	MW
	05/28/02	22.30	234.54	212.24	MW
	03/04/02	19.36	234.54	215.18	MW
	11/26/01	30.45	234.54	204.09	MW
	08/27/01	28.72	234.54	205.82	MW
	05/08/01	22.91	234.54	211.63	MW
LF08GW02B	02/26/07	50.11	225.27	175.16	MW
	08/14/06	47.70	225.27	177.57	MW
	05/22/06	44.75	225.27	180.52	MW
	03/06/06	49.58	225.27	175.69	MW
	11/28/05	50.72	225.27	174.55	MW
	08/29/05	49.70	225.27	175.57	MW
	05/23/05	49.30	225.27	175.97	MW
	03/14/05	51.95	225.27	173.32	MW
	12/13/04	52.24	225.27	173.03	MW
	08/09/04	50.59	225.27	174.68	MW
	05/24/04	49.51	225.27	175.76	MW
	03/08/04	51.60	225.27	173.67	MW
	12/01/03	51.94	225.27	173.33	MW
	08/11/03	51.07	225.27	174.20	MW
	06/02/03	50.87	225.27	174.40	MW
	03/10/03	52.13	225.27	173.14	MW
	12/02/02	52.49	225.27	172.78	MW
	08/26/02	51.60	225.27	173.67	MW
	05/28/02	51.30	225.27	173.97	MW
	03/04/02	52.76	225.27	172.51	MW
	11/26/01	52.73	225.27	172.54	MW
	08/27/01	51.94	225.27	173.33	MW
	05/08/01	51.98	225.27	173.29	MW
LF08GW03	02/26/07	38.25	230.41	192.16	MW
	08/14/06	37.24	230.41	193.17	MW
	05/22/06	33.42	230.41	196.99	MW
	03/06/06	35.32	230.41	195.09	MW
	11/28/05	39.39	230.41	191.02	MW
	08/29/05	38.34	230.41	192.07	MW
	05/23/05	36.50	230.41	193.91	MW

Table A-2-4
Groundwater Elevation Summary
Landfill 8
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF08GW03	03/14/05	35.41	230.41	195.00	MW
	12/13/04	40.65	230.41	189.76	MW
	08/09/04	39.47	230.41	190.94	MW
	02/26/07	38.25	230.41	192.16	MW
	05/24/04	38.13	230.41	192.28	MW
	03/08/04	36.00	230.41	194.41	MW
	12/01/03	39.34	230.41	191.07	MW
	08/11/03	38.54	230.41	191.87	MW
	06/02/03	37.52	230.41	192.89	MW
	03/10/03	37.34	230.41	193.07	MW
	12/02/02	40.18	230.41	190.23	MW
	08/26/02	39.23	230.41	191.18	MW
	05/28/02	37.92	230.41	192.49	MW
	03/04/02	37.15	230.41	193.26	MW
	11/26/01	41.04	230.41	189.37	MW
	08/27/01	40.26	230.41	190.15	MW
	05/08/01	38.34	230.41	192.07	MW
LF08GW04	02/26/07	35.38	234.70	199.32	MW
	08/14/06	36.2	234.70	198.50	MW
	05/22/06	31.54	234.70	203.16	MW
	03/06/06	31.09	234.70	203.61	MW
	11/28/05	37.53	234.70	197.17	MW
	08/29/05	37.17	234.70	197.53	MW
	05/23/05	33.48	234.70	201.22	MW
	03/14/05	31.02	234.70	203.68	MW
	12/13/04	34.8	234.70	199.90	MW
	08/09/04	37.57	234.70	197.13	MW
	05/24/04	35.8	234.70	198.90	MW
	03/08/04	32.15	234.70	202.55	MW
	12/01/03	37.35	234.70	197.35	MW
	08/11/03	37.40	234.70	197.30	MW
	06/02/03	35.60	234.70	199.10	MW
	03/10/03	34.52	234.70	200.18	MW
	12/02/02	37.37	234.70	197.33	MW
	08/26/02	37.47	234.70	197.23	MW
	05/28/02	35.48	234.70	199.22	MW
	03/04/02	33.23	234.70	201.47	MW
	11/26/01	36.36	234.70	198.34	MW
	08/27/01	37.65	234.70	197.05	MW
	05/08/01	35.67	234.70	199.03	MW
LF08GW06	02/26/07	19.95	234.31	214.36	MW
	08/14/06	20.62	234.31	213.69	MW
	05/22/06	15.84	234.31	218.47	MW
	03/06/06	15.12	234.31	219.19	MW
	11/28/05	24.39	234.31	209.92	MW
	08/29/05	21.1	234.31	213.21	MW
	05/23/05	17.34	234.31	216.97	MW
	03/14/05	14.93	234.31	219.38	MW
	12/13/04	24.73	234.31	209.58	MW
	08/09/04	24.25	234.31	210.06	MW
	05/24/04	20.65	234.31	213.66	MW
	03/08/04	15.84	234.31	218.47	MW
	12/01/03	23.47	234.31	210.84	MW

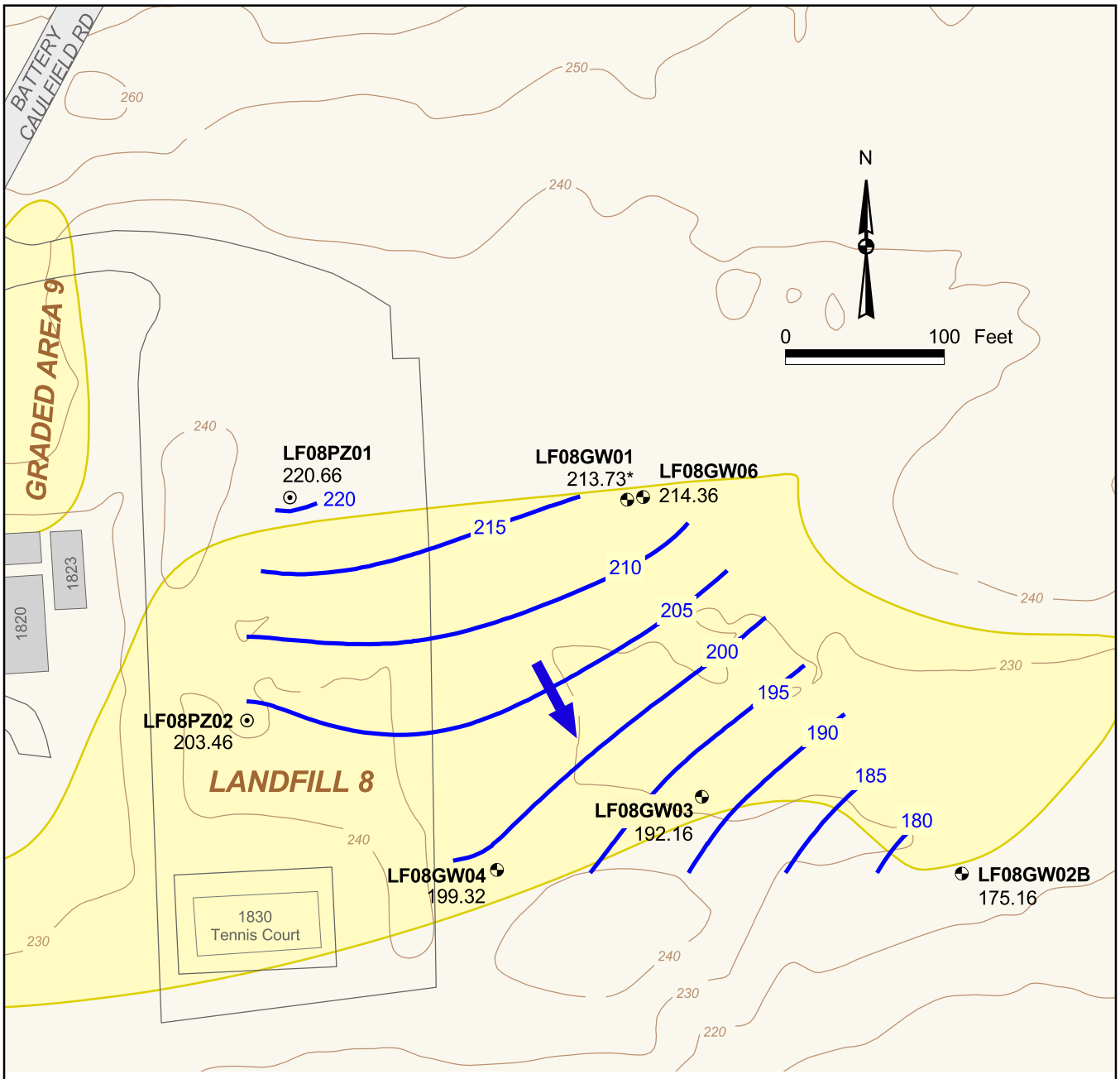
Table A-2-4
Groundwater Elevation Summary
Landfill 8
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF08GW06	08/11/03	21.87	234.31	212.44	MW
	06/02/03	19.31	234.31	215.00	MW
	03/10/03	18.96	234.31	215.35	MW
	12/02/02	24.75	234.31	209.56	MW
	08/26/02	23.76	234.31	210.55	MW
	05/28/02	19.69	234.31	214.62	MW
	03/04/02	17.52	234.31	216.79	MW
	11/26/01	24.75	234.31	209.56	MW
	08/27/01	24.71	234.31	209.60	MW
	05/08/01	20.47	234.31	213.84	MW
LF08PZ01	02/26/07	13.68	234.34	220.66	PZ
	08/14/06	13.90	234.34	220.44	PZ
	05/22/06	8.65	234.34	225.69	PZ
	03/06/06	9.22	234.34	225.12	PZ
	11/28/05	20.09	234.34	214.25	PZ
	08/29/05	15.17	234.34	219.17	PZ
	05/23/05	NL [2]	234.34	NA	PZ
	03/14/05	9.55	234.34	224.79	PZ
	12/13/04	18.67	234.34	215.67	PZ
	08/09/04	18.56	234.34	215.78	PZ
	05/24/04	12.22	234.34	222.12	PZ
	03/08/04	10.10	234.34	224.24	PZ
	12/01/03	18.77	234.34	215.57	PZ
	08/11/03	16.95	234.34	217.39	PZ
	06/02/03	12.48	234.34	221.86	PZ
	03/10/03	11.64	234.34	222.70	PZ
	12/02/02	21.77	234.34	212.57	PZ
	08/26/02	NL [2]	234.34	NA	PZ
	05/28/02	NL [2]	234.34	NA	PZ
	03/04/02	9.69	234.34	224.65	PZ
	11/26/01	21.82	234.34	212.52	PZ
	08/27/01	21.74	234.34	212.60	PZ
	05/08/01	13.53	234.34	220.81	PZ
LF08PZ02	02/26/07	31.16	234.62	203.46	PZ
	08/14/06	26.85	234.62	207.77	PZ
	05/22/06	19.46	234.62	215.16	PZ
	03/06/06	23.29	234.62	211.33	PZ
	11/28/05	33.09	234.62	201.53	PZ
	08/29/05	29.06	234.62	205.56	PZ
	05/23/05	21.85	234.62	212.77	PZ
	03/14/05	23.87	234.62	210.75	PZ
	12/13/04	33.90	234.62	200.72	PZ
	08/09/04	32.24	234.62	202.38	PZ
	05/24/04	28.05	234.62	206.57	PZ
	03/08/04	25.40	234.62	209.22	PZ
	12/01/03	34.55	234.62	200.07	PZ
	08/11/03	31.43	234.62	203.19	PZ
	06/02/03	29.35	234.62	205.27	PZ
	03/10/03	29.50	234.62	205.12	PZ
	12/02/02	36.22	234.62	198.40	PZ
	08/26/02	32.26	234.62	202.36	PZ
	05/28/02	27.95	234.62	206.67	PZ

Table A-2-4
Groundwater Elevation Summary
Landfill 8
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF08PZ02	03/04/02	27.62	234.62	207.00	PZ
	11/26/01	37.19	234.62	197.43	PZ
	08/27/01	35.50	234.62	199.12	PZ
	05/08/01	30.88	234.62	203.74	PZ

Notes
1 - All depth to water measurements are an average of three measurements recorded in the field.
2 - Piezometer was covered in landscaping material and was not located during the survey.
NL - not located
NA - not available
MW- Monitoring Well
PZ - Piezometer
feet PLLW - feet above Presidio Lower Low Water vertical datum



LEGEND

LF08GW02B 175.16 — Groundwater Monitoring Well, February 2007 Groundwater Elevation

LF08PZ02 203.46 — Piezometer, February 2007 Groundwater Elevation

* — Monitoring well not used in contouring, screened in bedrock.

Approximate Direction of Groundwater Flow

Groundwater Elevation Contour (Contour Interval : 5 ft)

Approximate Lateral Extent of Landfill

1830 — Previously Removed Building

Topographic Contour (Contour Interval : 10 ft)

Notes:
Groundwater elevation data collected on 26 February 2007.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

LANDFILL 8 SITE PLAN AND 26 FEBRUARY 2007 GROUNDWATER ELEVATION MAP

Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 561-5315
October 2007

FIGURE A-2-1

Treadwell & Rollo 2893_04\Q2_2007\A_02.APR 10/2007

First Quarter 2007

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 8 | Well No.: LF08-GW01
Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: BP | Sampled by: BP | Date: 3/6/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 45.77
Depth to Water (WL, ft. below TOC): 20.40
Depth to free phase (FP, ft. below TOC):

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type: 2" grundfos
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft): 43'
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 12 min
Recharge Rate:
Purge Rate: 500 mL/min

1.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556 / Hach 2100

Time	/ Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1525	/ 1.5	6.1	15.2	1.4	1267 mS	193	10	DTW: 21.42
1528	/ 3.0	6.1	15.1	1.3	1269	194	9	DTW: 21.53
1531	/ 4.5	6.1	15.3	1.3	1270	194	9	DTW: 21.77
1534	/ 6.0	6.1	15.5	1.3	1268	193	9	DTW: 21.82
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							

Comments: Purge water storage/disposal: ~~[ ] Drummed onsite~~ [X] Other Buke

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/6/07 / 1540

Purging Equipment: Pump - Type: 2" grundfos | Bailer - Type: | Other:
Sample Filtered: Yes / No | Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF08-GW01	4x1L Amb	CT	2198	
	3x40mL			
	4x500mL poly			
	1x250 mL			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultants

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 8 | Well No.: LF08GW02B

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BP | Sampled by: BP | Date: 3/6/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 60.50

Depth to Water (WL, ft. below TOC): 50.33

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type 2" grundfos
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft) ~~60~~ 59'
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 12 min

Recharge Rate:

Purge Rate: 500 ml/min

15 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556 Hach 2100

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1317 / 1.5	6.5	16.0	4.6	566 mS	132	9	DTW=50.82
1320 / 3.0	6.4	16.5	4.6	553	137	8	DTW=50.99
1323 / 4.5	6.3	17.1	4.6	551	139	8	DTW=51.08
1326 / 6.0	6.3	17.4	4.7	548	140	8	DTW=51.11
/							
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/							

Comments: Purge water storage/disposal: [ ] ~~Temporary onsite~~ [X] Other Baker

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: 3/6/07 / 1330

Purging Equipment: Pump - Type 2" grundfos Bailer - Type Other

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF08GW02B	4x500 mL Poly	CET	2198	
	1x250 mL Poly			
	4x 1 L Amb			
	3x 40mL VOA			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 8 | Well No.: LF08GW03

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BP | Sampled by: BP | Date: 3/6/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 45.70

Depth to Water (WL, ft. below TOC): 38.10

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type: 2" grundfos
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft):
[X] Near Bottom Depth (ft): 44'
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 12 min

Recharge Rate: | Purge Rate: 500 mL/min

1.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556 Hach 2100

Time	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1355	1.5	6.6	15.8	1.5	795 mS	172	7	DTW=38.48
1358	3.0	6.6	15.8	1.3	795	173	7	DTW=38.52
1401	4.5	6.6	15.8	1.3	791	173	6	DTW=38.55
1404	6.0	6.7	16.0	1.2	792	171	6	DTW=38.55

Comments: | Purge water storage/disposal: [ ] [ ] [X] Other Baker

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/6/07 / 1410

Purging Equipment: Pump - Type: 2" grundfos | Bailer - Type: | Other:

Sample Filtered: Yes / No | Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF08GW03	4x1L Amb		2198	
	3x40mL VOA	CT		
	4x500 poly			
	1x250 poly			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 8 | Well No.: LF08GW04

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BP | Sampled by: BP | Date: 3/7/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 45.75

Depth to Water (WL, ft. below TOC): 35.11

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type

[ ] Normal [X] Pump \ Type 2" grundfos

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[X] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 18 min

Recharge Rate: | Purge Rate: 500 mL/min

2.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556 Hach 2100

Time / Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
848 / 1.5	6.0	14.0	3.1	508	236	18	DTW = 35.48
851 / 3.0	6.0	14.5	2.9	504	226	15	DTW = 35.50
854 / 4.5	6.0	15.4	2.9	498	220	13	DTW = 35.50
857 / 6.0	6.0	15.9	2.9	491	215	12	DTW = 35.50
900 / 7.5	6.0	16.1	2.9	489	211	12	DTW = 35.50
903 / 9.0	6.0	16.2	2.9	485	210	11	DTW = 35.50
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Comments: | Purge water storage/disposal: [X] ~~Drummed on site~~ [X] Other Baker

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/7/07 / 905

Purging Equipment: Pump - Type 2" grundfos | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF08GW04	4x 1L Amb	CT	2201	
	3x 40mL HCl			
	4x 500mL Poly			
	1x250 NP			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.
	DUP030707073A

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell & Rollo
Environmental and Geotechnical Consultants

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 8 | Well No.: LF08GW06

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BP | Sampled by: BP | Date: 3/6/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other 25.45

Well Total Depth (TD, ft. below TOC): ~~25.45~~

Depth to Water (WL, ft. below TOC): 18.91

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type

[ ] Normal [X] Pump \ Type 2" Grundfos

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[X] Near Bottom Depth (ft) 24'

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 15 min

Recharge Rate:

Purge Rate: ~~500~~ 200 ml/min

2 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556 Hach 2100

Time	/ Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1438	/ 1.5	6.4	15.5	6.3	1010 mS	190	156	DTW = 19.82
1441	/ 3.0	6.3	16.2	5.9	1002	190	139	DTW = 20.15
1444	/ 4.5	6.3	16.7	6.3	993	188	122	DTW = 20.82
1447	/ 6.0	6.3	17.0	6.4	989	187	146	DTW = 21.00
1450	/ 7.5	6.3	17.1	6.5	1006	187	159	DTW = 21.05
	/							
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	/							
	/							
	/							
	/							

Comments: Purge water storage/disposal: ~~[ ] Drummed onsite~~ [X] Other Baker

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/6/07 / 1455

Purging Equipment: Pump - Type 2" Grundfos | Bailer - Type | Other

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF08GW06	3 x 40 mL	CT	2198	
	4 x 500 mL			
	4 x 1 L Amb			
	1 x 250 mL			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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FILL SITE 6
APPENDIX SECTION A-3
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2007
Presidio of San Francisco, California

1.0 INTRODUCTION AND BACKGROUND

Fill Site (FS) 6 is located in the northeastern portion of the Presidio (Figure 1). The topography across FS 6 is relatively flat and covered by buildings, streets, paved areas, and landscaping. The site ground surface elevation ranges from approximately 10 to 40 feet above the PLLW datum (Montgomery Watson, 1997a).

FS 6 is bounded by Lincoln Boulevard to the south, Halleck Street to the west, General Kennedy Avenue to the east, and Doyle Drive to the north (Figure A-3-1). FS 6 is reported to contain building debris from the original Letterman Army Medical Center, which was demolished in 1975, as well as a variety of other buildings. During construction of the parking lot east of Building 1028 in the 1980s, some building debris was discovered (Dames & Moore, 1997). In the southwest corner of the site, a mounded area relative to the adjacent areas (FS 6A), was formerly present and contained PCB-impacted soil (EKI, 2003).

The Trust installed four monitoring wells (LF6GW100, LF6GW101, LF6GW102, and LF6GW103) in July 2000 to investigate whether FS 6 contains soluble concentrations of chemicals of concern that adversely affect groundwater quality, and to investigate the possibility that fill materials extend west of Girard Road (EKI, 2003). As discussed in Section 3.0, FS 6 was divided into two portions, FS 6A and FS 6B (Figure A-3-1). In FS 6A, polychlorinated biphenyl's (PCBs) and mercury were present in soil above applicable cleanup levels. In preparation for the FS 6A remedial action, monitoring well LF6GW102 was abandoned in the First Quarter 2005. Remedial excavation was completed in September 2005 at FS 6A. Prior to the First Quarter 2007, the Trust installed six piezometers (LF6PZ101 through LF6PZ106) at FS 6A as described in Section 3.0.

Groundwater samples collected from FS 6 monitoring wells (Figure A-3-1) have been analyzed for general chemistry, dissolved oxygen, total organic carbon (TOC), TPHg, TPHd, dissolved gases (ethane, ethene and methane), polycyclic aromatic hydrocarbons (PAHs), organochlorine pesticides (OCPs), PCBs, 23 dissolved metals, and arsenic speciation. Additionally, monitoring well 231GW09 was added to the FS 6 monitoring plan to serve as a downgradient well for FS 6A and has been sampled for general chemistry, dissolved oxygen, VOCs, MTBE, TPHg, TPHd, TPHfo, and dissolved metals. Groundwater analytical results are presented in Tables A-3-1 through A-3-5.

To evaluate changing redox conditions, pH, temperature and oxygen-reduction potential (ORP) were added to the program in the First Quarter 2007. The *Technical Memorandum, Evaluation of Arsenic and Other Metals in Groundwater at Three Corrective Action Plan Sites, Presidio of San Francisco, San Francisco, California* (MACTEC, 2006), concluded that ORP is a good indicator for evaluating changing redox conditions. The First Quarter 2007 pH, temperature and ORP data are presented in Table A-3-2 and will be used in the ongoing redox evaluations at CAP sites.

2.0 SITE DESCRIPTION AND GEOLOGY

FS 6 is located in the Northeastern Groundwater Area of the Marina Groundwater Basin (Figure 1). Depth to groundwater ranges from approximately 6 to 22 feet bgs, based on groundwater monitoring well data. Groundwater level data indicate groundwater flow is generally to the north, towards the San Francisco Bay.

During the drilling of the RI soil borings in the eastern portion of FS 6, two lithologic units were encountered in the area. Underneath the paved areas west of Building 1028, the upper layer consists of fill material extending to a maximum depth of 7 feet bgs. The fill was found to include wood, bricks, concrete, ceramic tiles, asphalt roofing materials, and buckshot (Montgomery Watson, 1999b). The fill is believed to consist largely of building demolition debris. Below the fill is clayey silty sand to well-sorted sand with minor clay layers of the Colma Formation, which is consistent with geologic mapping of the area conducted by Schlocker (Schlocker, 1974). The Franciscan Formation is estimated to be present at approximately 175 feet bgs in this area.

Lithologic units encountered in the southwestern corner of FS 6 include an upper layer of fill material extending to an approximate depth of 15 or more feet, underlain by slope debris, ravine fill, and Colma Formation deposits. The fill consists largely of building demolition debris in a sand matrix and ranges from minor debris to significant sand and concrete foundations and rubble.

3.0 REMEDIAL ACTION PLAN

The *Remedial Action Plan* (RAP) *for Fill Site 6A and Baker Beach Disturbed Areas 3 and 4*, selected excavation, recycling, and offsite disposal of impacted fill material and underlying soil, along with groundwater monitoring, as the remedial alternative for FS 6A (Figure A-3-1). The goal of the remediation at FS 6A was to remove all contaminated material, leaving in place soil that meets the established cleanup levels (Treadwell & Rollo, 2003c).

Based on the availability of new data associated with the Building 1065 Study Area, FS 6 has been divided into two portions, FS 6A and FS 6B (Figure A-3-1). FS 6A addresses the portion of FS 6 bounded by Lincoln Boulevard to the south, Girard Avenue to the east, the area just west

of the buildings to the west of Halleck Street, and a sidewalk between Building 227 and 1030 to the north. In FS 6A, PCBs and mercury were formerly present in soil above applicable cleanup levels. The remainder of FS 6, consisting of FS 6B, will be subject to an evaluation of data and potential remedial action alternatives in a future decision document (Treadwell & Rollo, 2003c).

Pre-excavation activities for FS 6A began in winter 2004 and excavation began in May 2005. Prior to remediation excavation activities and the Second Quarter 2005 sampling event, monitoring well LF6GW102 was abandoned. The FS 6A remedial excavation was completed in September 2005. Following completion of excavation activities, three new wells (LF6GW104 through LF6GW106) were installed per the RAP and six new piezometers (LF6PZ101 through LF6PZ106) were installed to monitor water levels related to stream restoration at locations shown on Figure A-3-1. The six new piezometers were constructed using hand-held equipment and were installed directly into native soil. Because no sand pack or grout material was used in the construction of the piezometers, it was subsequently determined that development was not required.

The installation of the new wells and piezometers completes the FS 6A RAP groundwater well monitoring network, which consists of both new and existing wells. The proposed groundwater monitoring program and rationale is presented in Table 10 of the RAP. The six piezometers have been monitored quarterly for groundwater elevations starting with the First Quarter 2006.

In accordance with the California Code of Regulations, Title 27, Subchapter 3, Section 20390, a site that has undergone clean closure (where all wastes and residues, contaminated subsoil, and other contaminated materials are removed or decontaminated at closure) must be shown to comply with the water quality protection standards or the cleanup levels presented in Section 3 of the RAP for three years. Table 3 from the RAP summarizes groundwater cleanup levels applicable to FS 6A. Table 3 from the RAP summarizes groundwater cleanup levels applicable to FS 6A. These cleanup levels are based on the most stringent values for protecting drinking and surface waters. RAP-specified groundwater cleanup levels for some analytes are slightly lower than their QAPP analytical reporting limits. Applicable RAP-specified cleanup levels are listed on site data tables A-3-1 through A-3-5.

4.0 GROUNDWATER MONITORING

Groundwater elevations and samples were collected from FS 6 associated monitoring wells during the First Quarter 2007 and analyzed for the parameters described in Section 5.0 and Table 1A. No groundwater elevations or samples were collected from FS 6 Area monitoring wells and piezometers in the Second Quarter 2007; however, downgradient monitoring well 231GW09 was sampled during the Second Quarter 2007. Groundwater monitoring well locations are illustrated on Figure A-3-1 and groundwater elevations are illustrated on Figure A-3-2.

The casing was raised and a new well box installed at monitoring well LF6GW104 on 30 January 2007 because the ground surface was raised during the landscaping of the Site following remedial excavation. The top of casing elevation listed on Table A-3-6 during the First Quarter 2007 represents the resurveyed elevation.

4.1 Groundwater-Level Measurements and Interpretation

Groundwater elevations at the FS 6A shallow aquifer monitoring wells were evaluated with Building 231/207 and Building 1065/1027 shallow monitoring wells to better understand groundwater flow direction and gradients in this area. Current and historical FS 6 water elevations are presented in Table A-3-6. Monitoring well data for these adjacent sites can be found in Tables A-10-3 and A-11-4, respectively. A discussion of groundwater elevation trends in the FS 6 and Building 1065 vicinity can be found in Section 5.1 in Appendix A-11.

Groundwater elevation measurements were collected on 26 February 2007. During the First Quarter 2007, groundwater elevations, within FS 6A and associated wells, ranged from 10.91 to 19.54 feet above PLLW in monitoring wells LF6GW103 and LF6GW105, respectively (Figure A-3-2). The water level measurements from the six piezometers ranged in elevation from 9.23 to 13.50 feet above PLLW, during the First Quarter 2007. These water levels are associated with surface stream water levels are shallower than site groundwater levels, and therefore, they were not used to create groundwater contours. Groundwater elevations were not measured during the Second Quarter 2007.

The groundwater flow direction in the FS 6 Area was generally north to northeast towards the San Francisco Bay during the First Quarter 2007, which follows the general topographic trend (Figure A-3-2). The average groundwater gradient in the FS 6 area was calculated to be approximately 0.01 feet per foot during the First Quarter 2007. The overall groundwater gradients and flow directions observed during the First Quarter 2007 is consistent with gradients and flow directions previously observed.

4.2 Monitoring Well Purging and Sampling

The First Quarter 2007 sampling at FS 6 occurred on 27 and 28 February 2007. The First Quarter 2007 sampling at FS 6 was conducted in accordance with methods shown in Tables 1A of the main text and in accordance with procedures described in the FSP (Treadwell & Rollo, 2001a). No groundwater samples were collected from FS 6A during the Second Quarter 2007. However, downgradient monitoring well 231GW09 was sampled during the Second Quarter 2007, as proposed.

Purge equipment, purging volumes, purge water general chemistry parameters, and sampling equipment for each monitoring well are described in the purge records located at the conclusion of this section. Purge water was stored for future disposal in one of two 2,800-gallon aboveground polyethylene storage tanks, which are located at the Central Magazine.

4.3 Groundwater Analytical Program

All groundwater samples collected were submitted to the project laboratory for the analyses shown in Tables 1A and 1B of the main text. The appropriate sampling containers, preservatives, and maximum holding times for each analytical method are shown in Table 5. Sample containers used for each well are described in the purge records located at the conclusion of this section.

QA/QC samples were collected as part of this program. Section 6.2 of the main text discusses the QA/QC sampling and analysis performed during the First and Second Quarters 2007.

5.0 GROUNDWATER ANALYTICAL RESULTS

Current and historical analytical results are presented in Tables A-3-1 through A-3-5. During the First Quarter 2007, groundwater samples collected from the six FS 6 were analyzed for 23 dissolved metals, TDS, total sulfide and general chemistry. Additionally, redox (pH, ORP and temperature) parameters were measured. ORP, pH, and temperature were measured in the field and results are presented in Table A-3-2. LF6GW100, LF6GW101, and LF6GW103 were also analyzed for PAHs, OCPs, PCBs, TPHg and TPHd. Groundwater samples collected from LF6GW104 and LF6GW106 were additionally analyzed for PAHs, TPHd and TPHfo.

Monitoring well 231GW09 was analyzed for general chemistry parameters, 22 dissolved metals, TDS, TPHg, TPHd, and TPHfo during the First Quarter 2007. In addition to the parameters analyzed during the First Quarter 2007, monitoring well 231GW09 was also sampled for VOCs/MTBE and total sulfide.

No RAP-specified cleanup levels were exceeded during the First Quarter 2007 within the Fill Site 6 groundwater samples. The following sections discuss analytical results collected at FS 6 during the First Quarter 2007. Analytical results associated with monitoring well 231GW09 are discussed in Appendix A Section A-10.

5.1 Dissolved Oxygen Results

Dissolved oxygen was measured in wells sampled during the First Quarter 2007. Dissolved oxygen results are presented in Table A-3-2. During the First Quarter 2007, dissolved oxygen was measured at concentrations ranging from 0.37 to 0.9 mg/L at monitoring wells LF6GW100

and LF6GW106, respectively. These levels are within historical ranges previously measured at FS 6.

5.2 General Chemistry Results

The majority of the general chemistry parameter results measured during the First Quarter 2007 were within or near historical ranges and are not considered significant. New high/low concentrations detected are only slightly outside of historical highs or lows and can be attributed to the relatively small number of sampling events at some locations and to natural fluctuation. Significant detections are discussed below.

Nitrate as nitrogen was detected at a concentration of 1 mg/L in the LF6GW100 sample, which is more than double the previous high concentration (0.42 mg/L) within this well.

5.3 TPH Results

TPH was not detected within any FS 6 wells during the First Quarter 2007. TPHd has been detected sporadically at relatively low levels in monitoring wells LF6GW100 and LF6GW103 but has not exceeded RAP cleanup levels to date. TPHg and TPHfo have not been detected in any FS 6 monitoring wells.

5.4 OCP and PCB Results

No OCPs or PCBs, were detected within the FS 6 monitoring wells sampled and analyzed for these compounds during the First Quarter 2007, as shown in Table A-3-2. Aldrin and dieldrin have previously been detected above RAP-specified cleanup levels in wells LF6GW103 and LF6GW100, respectively. OCP concentrations will continue to be evaluated during future sampling events at wells LF6GW100, LF6GW101, and LF6GW103, in accordance with the RAP.

5.5 PAH Results

No PAHs were detected in FS 6 wells sampled for these analytes during the First Quarter 2007, as shown in Table A-3-2.

5.6 Dissolved Metals and TDS Results

The majority of dissolved metals results from the First Quarter 2007 were within or near historical ranges. New high/low concentrations detected are only slightly outside of historical highs or lows and can be attributed to the small number of sampling events at some locations and to natural fluctuation. Significant detections are discussed below.

- Arsenic, cadmium, cobalt, copper, lead, and nickel were detected for the first time within the QA/QC sample from monitoring well LF6GW105 during the First Quarter 2007. The majority of these detections were a result of a lower reporting limit used by the QA/QC laboratory. None of the detected concentrations exceeded the RAP cleanup levels for FS 6 monitoring wells.

- Arsenic, cadmium, and cobalt were detected for the first time within the QA/QC sample from monitoring well 231GW09 at concentrations of 4.7, 0.09 and 0.39 µg/L, respectively. The detected concentrations at the QA/QC laboratory are lower than the typical laboratory reporting limits at the primary laboratory for these analytes, which accounts for the first time detections within this well. RAP-specified cleanup levels do not apply to monitoring well 231GW09.

6.0 GROUNDWATER REDOX PARAMETERS

Several parameters were measured in the field and in the laboratory to help determine the redox state of groundwater at Fill Site 6.

The Trust has prepared a *Technical Memorandum: Arsenic and Other Metals in Groundwater at Three Corrective Action Sites, Presidio of San Francisco, California* to aid in evaluating groundwater conditions at CAP sites (MACTEC, 2006a). This technical memorandum discusses the reduction/oxidation (redox) state of groundwater at Fill Site 6 using data collected as part of the Presidio-wide Groundwater Monitoring Program in order to provide upgradient groundwater information for the Building 231/207 and Building 1065 Area CAP sites. Groundwater redox parameter results collected during the First Quarter 2007 were generally within the range of, or slightly outside of, previously detected concentrations at Fill Site 6. Analytical results detected significantly outside of historical bounds are summarized below.

- Nitrate as nitrogen was detected at a concentration of 1 mg/L in the LFGW100 sample, which is more than double the previous high concentration (0.42 mg/L) within this well.

Modified redox diagrams were developed for each Fill Site 6 monitoring well sampled. The redox diagrams were generated using the Sequence™ program and concentrations of dissolved oxygen, nitrate, manganese, iron, sulfate and methane and are plotted on Figure A-3-3. Each redox diagram consists of multiple axes, with each individual axis representing one of the above analytes. Each redox diagram is associated with one monitoring well location. The relative shape of each redox diagram represents an approximation of the redox state within the well studied. In general, the larger the polygon the more oxidizing the groundwater environment is at the well location, conversely, the smaller the polygon the more reducing the environment.

Fill Site 6 and Building 1065 Area (shallow zone) redox diagrams are shown on Figure A-3-3 to illustrate the differing redox environments across the sites.

7.0 CONCLUSIONS & RECOMMENDATIONS

Groundwater elevations, gradients, and flow directions are consistent with historical values and interpretations. No significant trends or observations were identified at FS 6 during the First and Second Quarters 2007.

No RAP-specified cleanup levels were exceeded during the First Quarter 2007 within the FS 6 wells sampled.

No TPH, OCPs, PCBs, or PAHs were detected within any FS 6 wells sampled for these analytes during the First Quarter 2007.

Several new high or low concentrations of dissolved metals were detected within FS 6 samples during the First Quarter 2007. However, the majority of these metal concentrations were only slightly higher or lower than previously detected concentrations. No detected metals concentrations exceeded their RAP-specified cleanup levels for FS 6 monitoring wells during the First Quarter 2007.

Post-remediation groundwater monitoring at FS 6A began during the Fourth Quarter 2005, in accordance with the RAP. Analyses were reduced to a semi-annual basis beginning in the First Quarter 2007. The wells are expected to be sampled on a semi-annual basis through the Third Quarter 2008, but are reviewed following each sampling event to determine if modifications to the sampling program should be made.

FS 6B will be addressed in RAP5, which is scheduled to be completed in the summer of 2009. FS 6B wells are expected to be sampled on an annual basis until RAP5 is prepared.

Table A-3-1
Results of TPH Analyses
Fill Site 6
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**443**	**443**	**443**
LF6GW100	02/28/07	< 50	< 50	NA
	03/17/06	< 50	< 50	NA
	04/04/05	< 50	< 50	NA
	03/15/04	< 50	NA	NA
	12/05/03	< 50	< 50	NA
DUP1205033A	12/05/03	< 50	< 50	NA
LF6GW100CL	12/05/03	< 50	< 48 UJ	NA
	08/20/03	< 50	< 50	NA
	06/09/03	< 50	< 50	NA
	03/19/03	< 50	< 50	NA
	12/06/02	< 50	< 50	NA
	09/05/02	< 50	< 50	NA
DUP0905023A	09/05/02	< 50	< 50	NA
	06/05/02	< 50	< 50	NA
	03/12/02	< 50	< 50	NA
DUP0312022A	03/12/02	< 50	< 50	NA
LF6GW100CL	03/12/02	< 50	< 50 UJ	NA
	12/04/01	< 50	< 50	NA
DUP1204011A	12/04/01	< 50	< 50	NA
LF6GW100CL	12/04/01	< 50	< 50	NA
	08/29/01	< 50	60 [3] Y,NJ	NA
	05/17/01	< 50	< 50	NA
	07/19/00	< 50	< 50	NA
LF6GW101	02/28/07	< 50	< 50	NA
	03/17/06	< 50	< 50	NA
	04/04/05	< 50	< 50	NA
	03/15/04	< 50	NA	NA
	12/05/03	< 50	< 50	NA
	08/20/03	< 50	< 50	NA
	06/10/03	< 50	< 50	NA
	03/19/03	< 50	< 50	NA
	12/06/02	< 50	< 50	NA
	09/04/02	< 50	< 50	NA
	06/05/02	< 50	< 50	NA
DUP0605021A	06/05/02	< 50	< 50	NA
	03/13/02	< 50	< 50	NA
	12/04/01	< 50	< 50	NA
	08/29/01	< 50	< 50 [3]	NA
	05/17/01	< 50	< 50	NA
	07/19/00	< 50	< 50	NA
LF6GW102	04/04/05	< 50	< 50	NA
	12/16/04	< 50	< 50	NA
	08/12/04	< 50	< 50	NA
	05/26/04	< 50	< 50	NA
	03/17/04	< 50	< 50	NA
	12/08/03	< 50	< 50	NA
	08/18/03	< 50	< 50	NA
	06/04/03	< 50	< 50	NA
	03/18/03	< 50	< 50	NA
DUP0318031A	03/18/03	< 50	< 50	NA
LF6GW102CL	03/18/03	< 50	< 50	NA

Table A-3-1
Results of TPH Analyses
Fill Site 6
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**443**	**443**	**443**
LF6GW102	12/11/02	< 50	< 50	NA
	09/05/02	< 50	< 50	NA
	06/06/02	< 50	< 50	NA
	03/13/02	< 50	< 50	NA
DUP0313021A	03/13/02	< 50	< 50	NA
	12/03/01	< 50	< 50	NA
DUP1203013A	12/03/01	< 50	< 50	NA
	09/07/01	< 50	57 [3] Y,NJ	NA
	05/18/01	< 50	< 50	NA
	07/19/00	< 50	< 50	NA
LF6GW103	02/28/07	< 50	< 50	NA
	12/05/06	< 50	< 50	NA
DUP1205062A	12/05/06	< 50	< 50	NA
LF6GW103CL	12/05/06	< 50 U	< 48 U	NA
	08/16/06	< 50	< 50	NA
DUP0816061A	08/16/06	< 50	< 50	NA
LF6GW103CL	08/16/06	< 50 U	< 50 U	NA
	05/23/06	< 50	76 Y	NA
	03/17/06	< 50	< 50	NA
	11/30/05	< 50	< 50	NA
DUP1130053B	11/30/05	< 50	< 50	NA
LF6GW103CL	11/30/05	< 50 U	< 50 U	NA
	08/31/05	< 50	< 50	NA
	05/25/05	< 50	< 50	NA
	04/05/05	< 50	< 50	NA
DUP0405053A	04/05/05	< 50	< 50	NA
LF6GW103CL	04/05/05	< 50 U	< 50 U	NA
	12/16/04	< 50	< 50	NA
	08/12/04	< 50	< 50	NA
DUP0812042A	08/12/04	< 50	< 50	NA
	05/26/04	< 50	< 50	NA
	03/15/04	< 50	NA	NA
	12/09/03	< 50	< 50	NA
	08/14/03	< 50	< 50	NA
	06/10/03	< 50	< 50	NA
	03/19/03	< 50	< 50	NA
	12/06/02	< 50	< 50	NA
	09/05/02	< 50	< 50	NA
	06/05/02	< 50	< 50	NA
	03/13/02	< 50	< 50	NA
	12/04/01	< 50	< 50	NA
	08/29/01	< 50	< 50 [3]	NA
	05/17/01	< 50	< 50	NA
	07/19/00	< 50	< 50	NA
LF6GW104	02/28/07	NA	< 50	< 300
	12/06/06	NA	< 50	< 300
	05/23/06	NA	< 50	< 300
	03/17/06	NA	< 50	< 300
	12/07/05	NA	< 50	< 300
LF6GW106	02/28/07	NA	< 50	< 300
	12/06/06	NA	< 50	< 300
	08/16/06	NA	< 50	< 300
	05/23/06	NA	< 50	< 300
	03/20/06	NA	< 50	< 300
	12/07/05	NA	< 50	< 300

Table A-3-1
Results of TPH Analyses
Fill Site 6
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**443**	**443**	**443**
231GW09	06/05/07	< 50	< 50	< 300
	12/05/06	< 50	< 50	< 300
DUP1205062B	12/05/06	< 50	< 50	< 300
231GW09CL	12/05/06	< 50 U	< 48 U	< 290 U
	08/15/06	< 50	< 50	< 300
	05/24/06	< 50	< 50	< 300
	03/15/06	< 50	< 50	< 300
	11/29/05	< 50	< 50	< 300
DUP1129052A	11/29/05	< 50	< 50	< 300
231GW09	08/31/05	< 50	< 50	< 300
	06/01/05	< 50	< 50	< 300
	04/04/05	< 50	< 50	< 300
	12/17/04	< 50	< 50	< 300
DUP1217042A	12/17/04	< 50	< 50	< 300
	08/12/04	< 50	< 50	< 300
	05/27/04	< 50	170 HY	< 300
DUP0527042C	05/27/04	< 50	< 50	< 300
231GW09CL	05/27/04	< 50	< 66	< 330
	03/18/04	< 50	< 50	< 300
	12/04/03	NA	NA	NA
	08/15/03	< 50	< 50	< 300
	06/10/03	NA	NA	NA

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - From Table 3 of the RAP (Treadwell & Rollo, 2003c).
3 - TPH analysis was not run using the silica gel cleanup method 3630A, although it was marked on the chain of custody.
µg/L - micrograms per liter
NA - Not analyzed
TPH - Total petroleum hydrocarbons
H - Heavier hydrocarbons contributed to the quantitation.
Y - Sample exhibits a fuel pattern that does not resemble the standard
Z - Sample exhibits unknown single peak or peaks.
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-3-2
Results of General Chemistry, PAH, OCP, PCB, and Dissolved Oxygen Analyses
Fill Site 6
Presidio of San Francisco, California

Well Name	Sample Date	General Chemistry												PAHs					OCPs and PCBs			
		Dissolved Oxygen	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature	Benzo(a)-Anthracene	Benzo(b)-Fluoranthene	Chrysene	Fluoranthene	All Other PAHs	Aldrin	Dieldrin	Endosulfan I	All Other OCPs and PCBs
	Analytical Method[1]	Field	E310.1	E310.1	E300.0	E300.0	E300.0	E300.0	E300.0	E300.0/ SW9056	Field	Field	Field	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8081/ SW8081A	SW8081/ SW8081A	SW8081/ SW8081A	SW8081/ SW8081A/ SW8082
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		--	--	--	--	--	--	--	--	--	--	--	--	**0.0044**	**0.0044**	**0.0044**	**300**	--	**0.00013**	**0.00014**	**110**	--
LF6GW100	02/28/07	0.37	210	210	43	< 0.1	1	< 0.05	37	< 0.04	132	7.00	14.70	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05	< 0.1	< 0.05	ND
	03/17/06	0.93	310	310	34	0.11	0.42	< 0.05	37	0.2 J-	205	6.95	12.7	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05	< 0.09 UJ	< 0.05	ND
	04/04/05	5.5	250	250	30	0.12	0.37	< 0.05	33	< 0.04 UJ	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05	< 0.1	< 0.05	ND
	03/15/04	2.6	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.2	< 0.1	< 0.4	ND	< 0.05	< 0.1	< 0.05	ND
	12/05/03	2	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05	< 0.1	< 0.05	ND
DUP1205033A	12/05/03	--	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05	< 0.1	< 0.05	ND
LF6GW100CL	12/05/03	--	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.049	< 0.097	< 0.049	< 0.097	ND	< 0.049	< 0.098 UJ	< 0.049	ND
	08/20/03	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.39	ND	< 0.05	< 0.09 UJ	< 0.05	ND
	06/09/03	4.7	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05	< 0.09 UJ	< 0.05	ND
	03/19/03	5.2	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05	**0.1**	< 0.05	ND
	12/06/02	3.9	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.049	< 0.098 UJ	< 0.049	ND
	09/05/02	0.8	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05 UJ	< 0.1	< 0.05 UJ	ND
DUP0905023A	09/05/02	--	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05 UJ	< 0.1	< 0.05 UJ	ND
	06/05/02	1.7	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	**0.11**	**0.26**	**0.17**	0.17 J	ND	< 0.047	< 0.094	< 0.047	ND
	03/12/02	0.9	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.048 UJ	< 0.096	< 0.048 UJ	ND
DUP0312022A	03/12/02	--	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.048 UJ	< 0.096	< 0.048 UJ	ND
LF6GW100CL	03/12/02	--	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.1	< 0.1	< 0.15	ND	< 0.05	**0.073 J-**	< 0.05	ND
	12/04/01	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.048	< 0.096 UJ	< 0.048	ND
DUP1204011A	12/04/01	--	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.048	< 0.096 UJ	0.058	ND
LF6GW100CL	12/04/01	--	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.1	< 0.1	< 0.15	ND	< 0.06	< 0.06	< 0.06	ND
	08/29/01	2.8	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.049	< 0.097 UJ	< 0.049	ND
	05/17/01	6.1	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09 UJ	< 0.19 UJ	< 0.09 UJ	< 0.38 UJ	ND	< 0.049	< 0.097 UJ	< 0.049	ND
	07/19/00	4.1	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 9.6	< 9.6	< 9.6	< 9.6	ND	< 0.094	< 0.094	< 0.094	ND
LF6GW101	02/28/07	0.81	390	390	57	< 0.1	0.78	< 0.05	60	< 0.04	183.00	6.80	15.20	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05	< 0.1	< 0.05	ND
	03/17/06	4.15	420	420	44	< 0.1	0.64	< 0.05	50	< 0.04 R	-249.2	5.76	14.4	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05	< 0.1	< 0.05	ND
	04/04/05	5.1	320	320	43	< 0.1	0.59	< 0.05	48	< 0.04 UJ	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05	< 0.1 UJ	< 0.05	ND
	03/15/04	2.2	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.39	ND	< 0.05	< 0.1 UJ	< 0.05	ND
	12/05/03	2.4	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05	< 0.1	< 0.05	ND
	08/20/03	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05	< 0.09 UJ	< 0.05	ND
	06/10/03	4.9	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05	< 0.09 UJ	< 0.05	ND
	03/19/03	5	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05	< 0.09	< 0.05	ND
	12/06/02	5.3	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.39	ND	< 0.049 UJ	< 0.098 UJ	< 0.049 UJ	ND
	09/04/02	1.4	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.047 UJ	< 0.094	< 0.047 UJ	ND
	06/05/02	0.9	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.047 UJ	< 0.094	< 0.047 UJ	ND
DUP0605021A	06/05/02	--	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.047 UJ	< 0.094	< 0.047 UJ	ND
	03/13/02	4.2	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.048 UJ	< 0.096	< 0.048 UJ	ND
	12/04/01	0.9	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.048	< 0.096 UJ	< 0.048	ND
	08/29/01	4.1	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.2	< 0.1	< 0.41	ND	< 0.049 UJ	< 0.097 UJ	< 0.049 UJ	ND
	05/17/01	5.7	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09 UJ	< 0.19 UJ	< 0.09 UJ	< 0.38 UJ	ND	< 0.049	< 0.097 UJ	< 0.049	ND
	07/19/00	4.5	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 9.5	< 9.5	< 9.5	< 9.5	ND	< 0.094	< 0.094	< 0.094	ND
LF6GW102	04/04/05	0.1	1,000	1,000	57	0.23	< 0.05	< 0.05	120	< 0.04 UJ	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05 UJ	< 0.1 UJ	< 0.05 UJ	ND
	12/16/04	0.6	740	740	33	0.15	< 0.05	< 0.05	3	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05	< 0.1	< 0.05	ND
	08/12/04	0.29	660	660	30	0.15	0.05	< 0.05	6.3	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05	< 0.09	< 0.05	ND
	05/26/04	0.52	580	580	31	0.14	< 0.05	< 0.05	11	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05 UJ	< 0.09	< 0.05 UJ	ND
	03/17/04	0.18	930	930	45	NA	< 0.05	< 0.05	68	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05	< 0.1 UJ	< 0.05	ND
	12/08/03	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05	< 0.09	< 0.05	ND
	08/18/03	0.3	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.2	< 0.1	< 0.39	ND	< 0.05	< 0.09	< 0.05	ND
	06/04/03	0.3	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1 U	< 0.38	ND	< 0.05	< 0.1 UJ	< 0.05	ND
	03/18/03	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05 UJ	< 0.1	< 0.05 UJ	ND
DUP0318031A	03/18/03	--	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05	< 0.09	< 0.05	ND
LF6GW102CL	03/18/03	--	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.05	< 0.1	< 0.05	< 0.1	ND	< 0.05 UJ	< 0.098 UJ	< 0.049	ND
	12/11/02	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.047 UJ	< 0.094	< 0.047 UJ	ND
	09/05/02	1	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.047 UJ	< 0.094	< 0.047 UJ	ND
	06/06/02	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.047 UJ	< 0.094	< 0.047 UJ	ND
	03/13/02	1.8	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.048 UJ	< 0.096	< 0.048 UJ	ND
DUP0313021A	03/13/02	--	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.048 UJ	< 0.096 UJ	< 0.048 UJ	ND
	12/03/01	1.4	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.048	< 0.095 UJ	< 0.048	ND
DUP1203013A	12/03/01	--	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.048	< 0.095 UJ	< 0.048	ND
	09/07/01	0.8	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.2	< 0.1	< 0.4	ND	< 0.048	< 0.096 UJ	< 0.048	ND
	05/18/01	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.17 UJ	< 0.33 UJ	< 0.17 UJ	< 0.67 UJ	ND	< 0.063	< 0.13 UJ	< 0.063	ND
	07/19/00	2.9	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 9.6	< 9.6	< 9.6	< 9.6	ND	< 0.094	< 0.094	< 0.094	ND

Table A-3-2
Results of General Chemistry, PAH, OCP, PCB, and Dissolved Oxygen Analyses
Fill Site 6
Presidio of San Francisco, California

Well Name	Sample Date	General Chemistry												PAHs					OCPs and PCBs			
		Dissolved Oxygen	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature	Benzo(a)-Anthracene	Benzo(b)-Fluoranthene	Chrysene	Fluoranthene	All Other PAHs	Aldrin	Dieldrin	Endosulfan I	All Other OCPs and PCBs
	Analytical Method[1]	Field	E310.1	E310.1	E300.0	E300.0	E300.0	E300.0	E300.0	E300.0/ SW9056	Field	Field	Field	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8081/ SW8081A	SW8081/ SW8081A	SW8081/ SW8081A	SW8081/ SW8081A/ SW8082
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		--	--	--	--	--	--	--	--	--	--	--	--	**0.0044**	**0.0044**	**0.0044**	**300**	--	**0.00013**	**0.00014**	**110**	--
LF6GW103	02/28/07	0.59	320	320	42	< 0.1	2.8	< 0.05	89	< 0.04	119.0	6.90	15.00	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05	< 0.09	< 0.05	ND
	12/05/06	0.75	320	320	39	< 0.1	3.3	< 0.05	97	NA	193.7	7	15.2	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05	< 0.09	< 0.05	ND
DUP1205062A	12/05/06	--	330	330	38	< 0.1	3.2	< 0.05	95	NA	--	--	--	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05	< 0.09	< 0.05	ND
LF6GW103CL	12/05/06	--	324	324	40	< 1 U	3	< 0.1 U	100	NA	--	--	--	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	ND	< 0.05 U	< 0.1 U	< 0.05 U	ND
	08/16/06	3.12	300	300	35	< 0.1	3.8	< 0.05	100	NA	199.3	6.65	16.80	< 0.09	< 0.19	< 0.09	< 0.94	ND	< 0.05	< 0.1	< 0.05 # UJ	ND
DUP0816061A	08/16/06	--	310	310	35	< 0.1	3.8	< 0.05	100	NA	--	--	--	< 0.09	< 0.19	< 0.09	< 0.94	ND	< 0.05	< 0.09	< 0.05 # UJ	ND
LF6GW103CL	08/16/06	--	317	317	35	< 2 U	3.8 J-	< 0.02 U	106	NA	--	--	--	< 0.2 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 1 U UJ	ND	< 0.05 U	< 0.1 U UJ	< 0.05 U	ND
	05/23/06	1.3	310	310	41	< 0.1	3.2	< 0.05	90	NA	51.3	6.7	16.2	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05	< 0.09	< 0.05	ND
	03/17/06	0.84	320	320	41	< 0.1	2.4	< 0.05	77	< 0.04 R	10.5	6.94	14.4	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05	< 0.09 UJ	< 0.05	ND
	11/30/05	3.1	370 J+	370	49	< 0.1	2.9	< 0.05	110	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.39	ND	< 0.05	< 0.1 UJ	< 0.05	ND
DUP1130053B	11/30/05	--	350 J+	350	49	< 0.1	2.9	< 0.05	110	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.39	ND	< 0.05	< 0.1 UJ	< 0.05	ND
LF6GW103CL	11/30/05	--	321	321	48.2	< 1 U	2.98	< 0.1 U	109	NA	NR	NR	NR	NA	NA	NA	NA	ND	< 0.05 U	< 0.1 U UJ	< 0.05 U	ND
	08/31/05	0.5	330	330	52	< 0.1	2.8	< 0.05	150	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	**0.05 b**	< 0.1	< 0.05	ND
	05/25/05	0.9	330	330	52	< 0.1	2.8	< 0.05	150	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.39	ND	< 0.05	< 0.1	< 0.05	ND
	04/05/05	2.7	320	320	52	< 0.1	3	< 0.05	140	< 0.04	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05	< 0.1 UJ	< 0.05	ND
DUP0405053A	04/05/05	--	350	350	52	< 0.1	3.1	< 0.05	140	< 0.04	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05	< 0.1 UJ	< 0.05	ND
LF6GW103CL	04/05/05	--	326	326	51	< 0.3 U	3.17	< 0.02 U	147	0.053	NR	NR	NR	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	ND	< 0.05	< 0.1 U	< 0.05 U	ND
	12/16/04	0.7	330	330	71	< 0.1	3.8	< 0.05	150	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05	< 0.1	< 0.05	ND
	08/12/04	0.33	270	270	78	< 0.1	3.8	< 0.05	130	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05	< 0.1	< 0.05 UJ	ND
DUP0812042A	08/12/04	--	320	320	77	< 0.1	3.8	< 0.05	130	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05 UJ	< 0.09	< 0.05	ND
	05/26/04	0.69	300	300	84	< 0.1	3.6	< 0.05	150	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05 UJ	< 0.09	< 0.05 UJ	ND
	03/15/04	2.1	320	320	88	< 0.1	3.9	< 0.05	160	NA	NR	NR	NR	< 0.1	< 0.2	< 0.1	< 0.39	ND	< 0.05	< 0.1	< 0.05	ND
	12/09/03	2.7	330	330.0	95	< 0.1	4.3	< 0.05	160	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05	< 0.1	< 0.05	ND
	08/14/03	3.3	320	320	71	< 0.1	3.8 b,J-	< 0.05 UJ	170	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05	< 0.1	< 0.05	ND
	06/10/03	2.8	320	320	64	< 0.1	4.3	< 0.05	170	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05	< 0.09 UJ	< 0.05	ND
	03/19/03	3.7	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05	< 0.09	< 0.05	ND
	12/06/02	5.5	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.39	ND	< 0.049	< 0.098	< 0.049	ND
	09/05/02	2.4	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05 UJ	< 0.099	< 0.05 UJ	ND
	06/05/02	0.8	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.047 UJ	< 0.094	< 0.047 UJ	ND
	03/13/02	3.2	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.048 UJ	< 0.096	< 0.048 UJ	ND
	12/04/01	1.0	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.048	< 0.096 UJ	< 0.048	ND
	08/29/01	3.0	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.047 UJ	< 0.094 UJ	< 0.047 UJ	ND
	05/17/01	5.2	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09 UJ	< 0.19 UJ	< 0.09 UJ	< 0.38 UJ	ND	< 0.048	< 0.096 UJ	< 0.048	ND
	07/19/00	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 9.7	< 9.7	< 9.7	< 9.7	ND	< 0.094	< 0.094	< 0.094	ND
LF6GW104	02/28/07	0.83	230	230	37	< 0.1	5.9	< 0.05	220	< 0.04	138.0	6.80	15.70	< 0.09	< 0.19	< 0.09	< 0.38	ND	NA	NA	NA	NA
	12/06/06	0.98	220	220	31	< 0.1	5.5	< 0.05	200	NA	192.1	6.8	15.9	< 0.09	< 0.19	< 0.09	< 0.38	ND	NA	NA	NA	NA
	05/23/06	0.42	230	230	31	< 0.1	5.7	< 0.05	210	NA	75.3	6.8	17.3	< 0.09	< 0.19	< 0.09	< 0.38	ND	NA	NA	NA	NA
	03/17/06	2.41	260	260	33	< 0.1	6.9	< 0.05	270	< 0.04 R	240	5.75	15.8	< 0.1	< 0.19	< 0.1	< 0.38	ND	NA	NA	NA	NA
	12/07/05	0.7	330	330	82	< 0.1	20	< 0.05	190	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	NA	NA	NA	NA
LF6GW105	02/27/07	0.82	320	320	87	< 0.1	4.7	< 0.05	100	< 0.04 R	218.0	6.50	16.00	NA	NA	NA	NA	NA	NA	NA	NA	NA
DUP0227072A	02/27/07	--	300	300	87	< 0.1	4.7	< 0.05	100	< 0.04 R	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
LF6GW105CL	02/27/07	--	288	NA	NA	< 0.2	4.7	< 0.1	99.7	< 0.4 UJ	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/06/06	0.02	290	290	86	< 0.1	4.7	< 0.05	110	NA	139.3	6.7	16.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/16/06	0.98	280	280	87	< 0.1	4.6	< 0.05	100	NA	92.1	6.70	18.60	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/23/06	0.54	280	280	89	< 0.1	4.8	< 0.05	110	NA	92.3	6.7	18.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/20/06	0.52	310	310	95	< 0.1	4.6	< 0.05	110	< 0.04 R	171.1	6.83	16	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/07/05	0.9	310	310	110	< 0.1	5.3	< 0.05	120	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
LF6GW106	02/27/07	0.9	250	250	94	< 0.1	8.1	< 0.05	170	< 0.04	124.0	6.80	16.20	< 0.09	< 0.19	< 0.09	< 0.38	ND	NA	NA	NA	NA
	12/06/06	0.97	230	230	91	< 0.1	7.6	< 0.05	140	NA	128.6	6.9	17.4	< 0.09	< 0.19	< 0.09	< 0.38	ND	NA	NA	NA	NA
	08/16/06	0.92	270	270	67	< 0.1	9.6	< 0.05	160	NA	193	6.90	17.70	< 0.09	< 0.19	< 0.09	< 0.94	ND	NA	NA	NA	NA
	05/23/06	0.7	250	250	62	< 0.1	8.7	< 0.05	120	NA	103.5	6.9	16.9	< 0.09	< 0.19	< 0.09	< 0.38	ND	NA	NA	NA	NA
	03/20/06	3.53	340	340	90	< 0.1	4.4	< 0.05	150	< 0.04 R	252	6.95	15.2	< 0.1	< 0.19	< 0.19	< 0.97	ND	NA	NA	NA	NA
	12/07/05	0.7	250	250	80	< 0.1	3.3	< 0.05	89	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.39	ND	NA	NA	NA	NA
231GW09	06/05/07	2.84	250	250	40	< 0.1	17 J	< 0.05	70	< 0.04	84.0	6.61	17.30	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/27/07	0.37	240	240	38	< 0.1	14	< 0.05	67	< 0.04 R	161.0	6.80	15.20	NA	NA	NA	NA	NA	NA	NA	NA	NA
DUP0227072C	02/27/07	--	240	240	38	< 0.1	15	< 0.05	66	< 0.04 R	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
231GW09CL	02/27/07	--	227	NA	36.8	< 0.2	15.5	< 0.1	62.4	< 0.4 UJ	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/05/06	0.67	230	230	38	< 0.1	14	< 0.05	66	< 0.04	188.3	6.7	18.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
DUP1205062B	12/05/06	--	240	240	37	< 0.1	14	< 0.05	66	< 0.04	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
231GW09CL	12/05/06	--	228	228	40	< 1 U	15	< 0.1 U	67.7	< 0.05	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/15/06	0.51	220	220	38	< 0.1	12	< 0.05	64	< 0.04	163	6.60	17.50	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/24/06	2.64	230	230	41	< 0.1	11	< 0.05	68	< 0.04 R	33.7	6.5	16.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/15/06	2.41	110	110	22	< 0.1	4.6	< 0.05	35	< 0.04	204	6.22	16.2	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table A-3-2
Results of General Chemistry, PAH, OCP, PCB, and Dissolved Oxygen Analyses
Fill Site 6
Presidio of San Francisco, California

Well Name	Sample Date	General Chemistry												PAHs					OCPs and PCBs			
		Dissolved Oxygen	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature	Benzo(a)-Anthracene	Benzo(b)-Fluoranthene	Chrysene	Fluoranthene	All Other PAHs	Aldrin	Dieldrin	Endosulfan I	All Other OCPs and PCBs
	Analytical Method[1]	Field	E310.1	E310.1	E300.0	E300.0	E300.0	E300.0	E300.0	E300.0/ SW9056	Field	Field	Field	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8081/ SW8081A	SW8081/ SW8081A	SW8081/ SW8081A	SW8081/ SW8081A/ SW8082
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		--	--	--	--	--	--	--	--	--	--	--	--	**0.0044**	**0.0044**	**0.0044**	**300**	--	**0.00013**	**0.00014**	**110**	--
231GW09	11/29/05	0.3	220 J+	220	48	< 0.1	6.6	< 0.05	75	< 0.04	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
DUP1129052A	11/29/05	--	210 J+	210	48	< 0.1	6.7	< 0.05	76	< 0.04	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/05	0.7	220	220	48	< 0.1	5.5	< 0.05	75	< 0.04	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/01/05	1.9	210	210	48	0.11	5.5	< 0.05	77	0.04	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	04/04/05	2.1	180	180	51	< 0.1	5.5	< 0.05	79	0.11 J-	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/17/04	0.9	120	120	52	< 0.1	5.8	< 0.05	81	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
DUP1217042A	12/17/04	--	190	190	51	< 0.1	5.6	< 0.05	79	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/12/04	0.82	250	250	50	< 0.1	5.8	< 0.05	77	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/27/04	0.49	310	310	51	< 0.1	6	< 0.05	81	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
DUP0527042C	05/27/04	NA	250	250	51	< 0.1	5.7	< 0.05	80	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
231GW09CL	05/27/04	NA	210	210	52 D	0.11	7.1 D	< 0.05	83 D	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/18/04	0.7	210	210	56	< 0.1	6.5	< 0.05	85	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/04/03	1.6	220	220	53	< 0.1	6.9	< 0.05	81	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/15/03	1.7	190	190	51	< 0.1	7.7 b,J-	< 0.05 UJ	91	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/10/03	2.1	250	250	57	< 0.1	9.1	< 0.05	88	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/17/03	5	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/04/02	1.9	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/30/02	4.4	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/30/02	2.8	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/07/02	2.2	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/29/01	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/30/01	3.9	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/09/01	4.4	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	04/14/99	4.5	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/13/99	4.23	183	183	55.8	NA	33.6	NA	69	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/14/98	4.73	181	181	49	NA	28.2	NA	65	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/15/98	6.62	210	210	49.9 D	NA	32.2 D	NA	68.6 D	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	04/20/98	4.05	250	250	75.1 D	NA	45.6 D	NA	92.8 D	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/28/98	3.47	190	190	62.4 D	NA	22.3 D	NA	73.8 D	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/23/97	2.08	< 165	< 165	47.5 D	NA	24.5 D	NA	67.4 D	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/24/97	3.72	172	172	42.4 D	NA	29.1 D	NA	75.9 D	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	04/22/97	3.96	195	195	49.8 D	NA	29.8 D	NA	69.2 D	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/28/97	1.39	197	197	53.9 D	NA	22.5 D	NA	67 D	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - From Table 3 of the RAP (Treadwell & Rollo, 2003c). RAP cleanup levels only apply to wells LF6GW103, LF6GW104, LF6GW105, and 231GW09.
µg/L - micrograms per liter
mg/L - milligrams per liter
C° - degrees centigrade
mV - millivolts
ND - Not detected
NR - Not reported
OCPs - Organochlorine pesticides
ORP - Oxidation-reduction potential
PAHs - Polycyclic aromatic hydrocarbons
PCBs - Polychlorinated biphenyls
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.
Bold - indicates value above cleanup levels (see note 2 above).
-- Cleanup level not established
NA - Not analyzed
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.

Table A-3-3
Results of Dissolved Metals Analyses
Fill Site 6
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [2]		--	**6**	**10**	**10**	**1,000**	**4**	**1.1**	--	**50**	--	**11.8**	--	**3.2**	--	--	**0.012**	**100**	--	**5**	**4.1**	--	**1.7**	--	**106**	--
LF6GW100	02/28/07	< 100	< 1	< 5	NA	19	< 2	< 1	31,000	< 10	< 10	< 1	< 100	< 3	41,000	< 10	< 0.2	< 20	< 500	< 5	< 1	25,000	< 1	< 10	25	320
	03/17/06	< 100	< 1	< 5	NA	18	< 2	< 1	31,000	< 10	< 10	1.3	< 100	< 3	41,000 J	< 10	< 0.2	< 20	810 J-	< 5	< 1	27,000	< 1	< 10	< 20	350
	04/04/05	< 100	< 1	< 5	0.792	16	< 2	< 1	31,000	< 10	< 10	1.5	130	< 3	43,000	< 10	< 0.2	< 20	660	< 5	< 1	32,000	**5**	< 10	< 20	330
	03/15/04	< 100	< 1	< 5	NA	21	< 2	< 1	39,000	< 10	< 10	2.3	< 100	< 3	55,000	< 10	< 0.2	< 20	710	< 5	< 1	37,000	< 1	14	< 20	510
	12/05/03	< 100	2.3	< 5	NA	18	< 2	< 1	29,000	< 10	< 10	1.1	100	< 3	50,000	< 10	< 0.2	< 20	570	< 5	< 1	30,000	< 1	11	< 20	450
DUP1205033A	12/05/03	< 100	< 1	< 5	NA	17	< 2	< 1	30,000	< 10	< 10	< 1	110	< 3	51,000	< 10	< 0.2	< 20	560	< 5	< 1	31,000	< 1	11	< 20	430
LF6GW100CL	12/05/03	< 1,000	< 5	5.9	NA	15	< 1	< 1	37,000	< 10	< 7	< 10	< 500	< 3	50,000	< 5	< 0.2	< 10	< 1,200	< 5	< 1	32,000	< 2	11	< 20	380
	08/20/03	< 100	< 1	< 5	NA	17	< 2	< 1	35,000	< 10	< 10	2.1	390	< 3	51,000	< 10	< 0.2	< 20	510	< 5	< 1 UJ	30,000	< 1	11	< 20 UJ	480
	06/09/03	< 100	1.2	< 5	NA	15	< 2	< 1	37,000	< 10	< 10	1.1	< 100	< 3	52,000	< 10	< 0.2	< 20	< 500	< 5	< 1	29,000	< 1	11	< 20	460
	03/19/03	< 100 UJ	< 1	< 1	NA	12	< 1	< 1	42,000 J	5.2 J	< 1	1.2	< 100	< 3	64,000 J	< 10 UJ	< 0.2	6	560	< 5	< 1 UJ	39,000 J	< 1	< 10	< 10	490
	12/06/02	< 100	< 1	< 1	NA	14	< 1	< 1	34,000	8.9	< 1	1.2	110	< 3	49,000	< 10 UJ	< 0.2	6.6	580	< 5	< 1 UJ	28,000	< 1	11	< 10	270
	09/05/02	< 100	1	1	NA	410	< 1	< 1	36,000	8.3	< 1	1.4	< 100	< 3	52,000	< 10	< 0.2	6.3	750	< 5	< 1 UJ	32,000	< 1	11	**200**	430 J-
DUP0905023A	09/05/02	< 100	< 1	< 1	NA	250	< 1	< 1	35,000	8	< 1	1.3	< 100	< 3	52,000	< 10	< 0.2	6.1	670	< 5	< 1 UJ	31,000	< 1	11	65	400 J-
	06/05/02	< 100	< 1	1.2	NA	520	< 1	< 1	37,000	6.7	< 1	1.7	120	< 3	55,000	< 10	< 0.2	6.1	830	< 5	< 1	34,000	< 1	< 10	**220**	350
	03/12/02	< 100	< 1	1.2	NA	450	< 1	< 1	37,000	4.2	< 1	1.7	< 100	< 3	57,000	< 10	< 0.2	6.2	720	< 5	< 1 UJ	37,000	< 1	< 10	**170**	400
DUP0312022A	03/12/02	< 100	< 1	1.2	NA	240	< 1	< 1	35,000	4.5	< 1	1.7	< 100	< 3	55,000	< 10	< 0.2	6.4	730	< 5	< 1 UJ	36,000	< 1	< 10	48	390
LF6GW100CL	03/12/02	< 200	2.2	< 2	NA	490	< 2	< 1	32,000	3.2	0.2 J	2.3 B	< 200	< 5	46,000	< 5	NA	6.3	< 1,000	< 5	< 1	36,000	< 5	9.3	**170**	580 J-
	12/04/01	< 100	< 1	1.2	NA	290	< 1	< 1	47,000	9.4 J	< 1	2.8	< 100	< 3	71,000	< 10	< 0.2	9 J	1,400	< 5	< 1	40,000	< 1	< 10	71	510
DUP1204011A	12/04/01	< 100	< 1	1.4	NA	150	< 1	< 1	50,000	9.5 J	< 1	2.7	< 100	< 3	74,000	< 10	< 0.2	8.9 J	1,400	< 5	< 1	42,000	< 1	< 10	41	500
LF6GW100CL	12/04/01	< 200	1.1 J	1.9 BJ	NA	540	< 1	< 1	44,000	9.1 B	1.3	< 5	< 200	< 5	63,000	< 5	< 0.2	9.3	1,100	< 5	< 1	41,000	< 1	8.6	**160**	530
	08/29/01	110	1.9	1.7	NA	770 J+	< 1	< 1	39,000	6.2	< 1	2.2	310	< 3	62,000	< 10	< 0.2	7.3	< 500	< 5	< 1 UJ	37,000	< 1	< 10	**330**	450
	05/17/01	< 2,000	< 20	1.4	NA	40	< 20	< 20	< 500 R	7.2 J	< 20	1.3	360	< 60	230,000	13	< 0.2	7	820 J	< 5	< 20	120,000	< 20	11	20	430
	07/19/00	NA	< 60	< 5	NA	< 10	< 2	< 5	NA	< 10	< 20	< 10	NA	< 3	NA	NA	< 0.2	< 20	NA	< 5	< 5	NA	< 5	< 10	< 20	NA
LF6GW101	02/28/07	< 100	< 1	< 5	NA	39	< 2	< 1	48,000	22	< 10	< 1	< 100	< 3	67,000	< 10	< 0.2	< 20	< 500	< 5	< 1	56,000	< 1	14	36	530
	03/17/06	< 100	< 1	< 5	NA	28	< 2	< 1	39,000	17	< 10	< 1	< 100	< 3	57,000 J	< 10	< 0.2	< 20	< 500 UJ	< 5	< 1	52,000	< 1	11	< 20	600
	04/04/05	< 100	< 1	< 5	1.22	26	< 2	< 1	37,000	20	< 10	< 1	< 100	< 3	54,000	< 10	< 0.2	< 20	< 500	< 5	< 1	65,000	< 1	10	< 20	460
	03/15/04	< 100	< 1	< 5	NA	20	< 2	< 1	33,000	21	< 10	< 1	< 100	< 3	49,000	< 10	< 0.2	< 20	620	< 5	< 1	62,000	< 1	15	< 20	530
	12/05/03	< 100	2.4	< 5	NA	17	< 2	< 1	34,000	18	< 10	< 1	< 100	< 3	51,000	< 10	< 0.2	< 20	690	< 5	< 1	62,000	< 1	11	< 20	500
	08/20/03	< 100	1.6	< 5	NA	12	< 2	< 1	31,000	17	< 10	< 1	250	< 3	44,000	< 10	< 0.2	< 20	580	< 5	< 1 UJ	62,000	< 1	11	< 20 UJ	540
	06/10/03	< 100	< 1	< 5	NA	14	< 2	< 1	31,000	18	< 10	< 1	< 100	< 3	43,000	< 10	< 0.2	< 20	570	< 5	< 1	61,000	< 1	11	< 20	490
	03/19/03	< 100 UJ	< 1	1.3	NA	12	< 1	< 1	39,000 J	18 J	< 1	< 1	< 100	< 3	58,000 J	< 10 UJ	< 0.2	3.2	630	< 5	< 1 UJ	80,000 J	< 1	11	< 10	440
	12/06/02	< 100	< 1	1.5	NA	< 10	< 1	< 1	29,000	16	< 1	1	< 100	< 3	40,000	< 10 UJ	< 0.2	3	760	< 5	< 1 UJ	55,000	< 1	12	< 10	400
	09/04/02	< 100	2	1.6	NA	580	< 1	< 1	32,000	15 J	< 1	1.2	< 100	< 3	44,000	< 10	< 0.2	3.1	1,100	< 5	< 1 UJ	64,000	< 1	11	**250**	410
	06/05/02	< 100	< 1	1.8	NA	300	< 1	< 1	30,000	22	< 1	1.1	110	< 3	41,000	< 10	< 0.2	2.6	940	< 5	< 1	65,000	< 1	12	73	560
DUP0605021A	06/05/02	< 100	< 1	1.8	NA	520	< 1	< 1	30,000	21	< 1	< 1	100	< 3	40,000	< 10	< 0.2	2.5	970	< 5	< 1	66,000	< 1	12	**210**	450
	03/13/02	< 100	< 1	2.2	NA	390	< 1	< 1	31,000	20	< 1	< 1	< 100	< 3	39,000	< 10	< 0.2	2.2	1,100	< 5	< 1 UJ	61,000	< 1	10	**140**	400
	12/04/01	< 100	1.8	2.1	NA	570	< 1	< 1	37,000	23 J	< 1	2.1	< 100	< 3	43,000	< 10	< 0.2	3.9	1,400	< 5	< 1	75,000	< 1	13	**200**	500
	08/29/01	< 100	1.1	3	NA	45 J+	< 1	< 1	36,000	20	< 1	2.3	130	< 3	42,000	< 10	< 0.2	2.7	1,300	< 5	< 1 UJ	67,000	< 1	12	36	430
	05/17/01	< 2,000	< 20	2.6	NA	36	< 20	< 20	< 500 R	20 J	< 20	< 20	240	< 60	150,000	< 200	< 0.2	2.4	1,900 J	< 5	< 20	250,000	< 20	11	17	460
	07/19/00	NA	< 60	< 5	NA	15	< 2	< 5	NA	12	< 20	< 10	NA	< 3	NA	NA	< 0.2	< 20	NA	< 5	< 5	NA	< 5	< 10	< 20	NA
LF6GW102	04/04/05	< 100	< 1	< 5	NA	330	< 2	< 1	150,000	< 10	< 10	< 1	12,000	< 3	120,000	8,300	< 0.2	< 20	2,600	< 5	< 1	110,000	< 1	< 10	< 20	1,190
	12/16/04	< 100	< 1	< 5	NA	270	< 2	< 1	98,000	< 10	< 10	< 1	18,000	< 3	88,000	7,200	< 0.2	< 20	3,300	< 5	< 1	63,000	**2.7**	< 10	< 20	740
	08/12/04	< 100	< 1	< 5	NA	300	< 2	< 1	98,000	< 10	< 10	< 1	21,000	< 3	84,000	8,200	< 0.2	< 20	3,100	< 5	< 1	62,000	< 1	< 10	< 20	690
	05/26/04	< 100	< 1	< 5	NA	< 500	< 2	< 1	82,000	< 10	< 10	< 1	15,000	< 3	84,000	6,500	< 0.2	< 20	2,800	< 5	< 1	54,000	< 1	< 10	< 20	610
	03/17/04	< 100	< 1	< 5	NA	360	< 2	< 1	160,000	< 10	< 10	< 1	13,000	< 3	120,000	8,000	< 0.2	< 20	2,700	< 5	< 1 UJ	110,000	< 1	< 10	< 20	1,100
	12/08/03	< 100	1.2	< 5	NA	190	< 2	< 1	67,000	< 10	< 10	< 1	13,000	< 3	73,000	4,600	< 0.2	< 20	1,900	< 5	< 1 UJ	46,000	< 1	< 10	< 20	450

Table A-3-3
Results of Dissolved Metals Analyses
Fill Site 6
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [2]		--	**6**	**10**	**10**	**1,000**	**4**	**1.1**	--	**50**	--	**11.8**	--	**3.2**	--	--	**0.012**	**100**	--	**5**	**4.1**	--	**1.7**	--	**106**	--
LF6GW102	08/18/03	< 100	< 1	< 5	0.851 J	200	< 2	< 1	66,000	< 10	< 10	< 1	11,000	< 3	74,000	4,500	< 0.2	< 20	1,800	< 5	< 1 UJ	48,000	< 1	< 10	< 20 UJ	560
	06/04/03	< 100	< 1	< 5	NA	170	< 2	< 1	58,000	< 10	< 10	< 1	9,800	< 3	69,000	3,900	< 0.2	< 20	1,700	< 5	< 1 UJ	43,000	< 1	< 10	< 20	560
	03/18/03	< 100 UJ	1.2	3.4	NA	300	1.1	1	110,000 J	4.5 J	1.1	1.2	12,000	< 3	110,000 J	5,800 J	< 0.2	3.7	2,500	< 5	< 1 UJ	86,000 J	< 1	< 10	< 10	690
DUP0318031A	03/18/03	< 100 UJ	< 1	2.7	NA	290	< 1	< 1	110,000 J	4.4 J	< 1	< 1	12,000	< 3	110,000 J	5,600 J	< 0.2	2.9	2,400	< 5	< 1 UJ	75,000 J	< 1	< 10	< 10	680
LF6GW102CL	03/18/03	< 100	< 5	< 2	NA	240	< 1	< 1	83,000	< 5	< 1	< 5	14,000	< 3	81,000	5,900	< 0.2 UJ	< 5	2,200	< 5	< 1	63,000	< 2	< 10	< 10	720
	12/11/02	< 100	< 1	2.9	NA	240 J+	< 1	< 1	81,000 J	< 1	< 1	< 1	14,000	< 3	81,000 J	6,300	< 0.2	2.7	2,500 J	< 5	< 1 UJ	53,000 J	< 1	< 10	< 10	620
	09/05/02	< 100	< 1	3.3	NA	540	< 1	< 1	82,000	5.4	< 1	< 1	16,000	< 3	81,000	6,300	< 0.2	2.5	2,500	< 5	< 1 UJ	59,000	< 1	< 10	52	670 J-
	06/06/02	< 100	< 1	3.1	NA	520	< 1	< 1	99,000	4.1	< 1	< 1	14,000	< 3	76,000	5,800	< 0.2	1.9	2,500	< 5	< 1	58,000	< 1	< 10	61	680
	03/13/02	< 100	2.2	2.7	NA	870	< 1	< 1	110,000	1.5	< 1	< 1	10,000	< 3	99,000	6,200	< 0.2	4.1	2,600	< 5	< 1 UJ	88,000	< 1	< 10	**190**	820
DUP0313021A	03/13/02	< 100	< 1	2.6	NA	380	< 1	< 1	110,000	1.5	< 1	< 1	10,000	< 3	95,000	6,600	< 0.2	3.9	2,400	< 5	< 1 UJ	81,000	< 1	< 10	20	840
	12/03/01	< 100	< 1	2.8	NA	290	< 1	< 1	74,000	1.7	< 1	< 1	14,000	< 3	88,000	5,300	< 0.2	4.7	2,400	< 5	< 1	58,000	< 1	< 10	12	630
DUP1203013A	12/03/01	< 100	< 1	2.8	NA	520	< 1	< 1	75,000	1.2	< 1	1.1	14,000	< 3	93,000	5,400	< 0.2	3.9	2,400	< 5	< 1	61,000	< 1	< 10	52	640
	09/07/01	< 100	< 1	2.5	NA	560 J+	< 1	< 1	83,000	< 1	< 1	< 1	14,000	< 3	89,000	5,900	< 0.2	5	2,000	< 5	< 1 UJ	62,000	< 1	< 10	84	630
	05/18/01	< 100	1.5	2.9	NA	450	< 1	< 1	81,000	1	< 1	1.3	14,000	< 3	77,000	6,300	< 0.2	5.4	2,500	< 5	< 1 UJ	62,000	< 1	< 10	62	710
	07/19/00	NA	< 60	< 5	NA	110	< 2	< 5	NA	< 10	< 20	< 10	NA	< 3	NA	NA	< 0.2	< 20	NA	**6.2**	< 5	NA	< 5	< 10	< 20	NA
LF6GW103	02/28/07	< 100	< 1	< 5	NA	69	< 2	< 1	37,000	25	< 10	< 1	< 100	< 3	56,000	< 10	NA	< 20	< 500	< 5	< 1	63,000	< 1	< 10	< 20	560
	12/05/06	< 100	< 1	< 5	NA	67	< 2	< 1	34,000	28	< 10	< 1	< 100	< 3	50,000	< 10	< 0.2	< 20	< 500 UJ	< 5	< 1	62,000	< 1	11	< 20	600 J+
DUP1205062A	12/05/06	< 100	< 1	< 5	NA	69	< 2	< 1	36,000	29	< 10	< 1	< 100	< 3	52,000	< 10	< 0.2	< 20	< 500 UJ	< 5	< 1	62,000	< 1	10	< 20	590 J+
LF6GW103CL	12/05/06	< 100 U	< 2 U	< 2 U	NA	79	< 1 U	< 1 U	43,600	32	< 1 U	< 2 U	< 100 U	< 1 U	66,200	< 10 U	< 0.2 U	6.9	< 5000 U	< 2 U	< 1 U	75,000	< 1 U	13	< 20 U	547
	08/16/06	< 100	< 1	< 5	NA	71	< 2	< 1	38,000	26	< 10	< 1	< 100	< 3	62,000	< 10	< 0.2 UJ	< 20	580	< 5	< 1	68,000	< 1	< 10	< 20	550
DUP0816061A	08/16/06	< 100	< 1	< 5	NA	71	< 2	< 1	38,000	26	< 10	< 1	< 100	< 3	63,000	< 10	< 0.2 UJ	< 20	590	< 5	< 1	69,000	< 1	< 10	< 20	NA
LF6GW103CL	08/16/06	< 100 U	< 60 U	< 100 U	NA	73	< 2 U	< 5 U	38,400	28	< 10 U	< 20 U	< 100 U	< 50 U	61,000	< 10 U	< 0.2 U	< 40 U	< 5,000 U	< 200 U	4 B U	68,400	< 2000 U	12	7 B	590
	05/23/06	< 100 UJ	< 1	< 5	NA	69	< 2	< 1	35,000	27	< 10	< 1	< 100	< 3	53,000	< 10	< 0.2	< 20	630	< 5	< 1	68,000	< 1	< 10	< 20	470
	03/17/06	< 100	< 1	< 5	NA	61	< 2	< 1	31,000	26	< 10	< 1	< 100	< 3	49,000 J	< 10	< 0.2	< 20	< 500 UJ	< 5	< 1	59,000	< 1	< 10	< 20	430
	11/30/05	< 100	< 1	< 5	NA	71	< 2	< 1	37,000	29 J	< 10	< 1	160	< 3	59,000	< 10	< 0.2	< 20	530	< 5	< 1	70,000	< 1	< 10	< 20	570
DUP1130053B	11/30/05	< 100	< 1	< 5	NA	73	< 2	< 1	40,000	28 J	< 10	< 1	160	< 3	66,000	< 10	< 0.2	< 20	570	< 5	< 1	79,000	< 1	< 10	< 20	560
LF6GW103CL	11/30/05	< 100 U	< 2 U	< 2 U	NA	82	< 1 U	< 1 U	45,000	37	< 1 U	< 2 U	< 100 U	< 1 U	65,000	< 10 U	< 0.2 U	5.7	< 5,000 UN	< 2 U	< 1 U	74,000	< 1 U	11	< 20 U	602
	08/31/05	< 100	< 1	< 5	NA	87	< 2	< 1	45,000	29	< 10	< 1	360	< 3	67,000	< 10	< 0.2	< 20	580 J	< 5	< 1	77,000	< 1	< 10	< 20	660
	05/25/05	< 100 UJ	< 1	< 5	0.386 J	88 J	< 2	< 1	46,000	27	< 10	< 1	< 100	< 3	68,000	< 10	< 0.2	< 20	600	< 5	< 1	75,000	< 1	< 10	< 20	670
	04/05/05	< 100	< 1	< 5	NA	79	< 2	< 1	43,000 J	28	< 10	< 1	120	< 3	57,000	< 10 UJ	< 0.2	< 20	500	< 5	< 1	65,000	< 1	< 10	< 20	590
DUP0405053A	04/05/05	< 100	< 1	< 5	0.387 J	82	< 2	< 1	45,000 J	28	< 10	< 1	150	< 3	59,000	< 10 UJ	< 0.2	< 20	540	< 5	< 1	68,000	< 1	< 10	< 20	600
LF6GW103CL	04/05/05	< 100 U	< 2 U	< 2 U	NA	93.5	< 1 U	< 1 U	47,700	31.3	< 1 U	< 2 U	< 100 U	< 1 U	75,400	< 10 U	< 0.2 U	5.3	< 5,000 U	< 2 U	< 1 U	87,300	< 1 U	< 10 U	< 20 U	686
	12/16/04	< 100	< 1	< 5	NA	84	< 2	< 1	43,000	32	< 10	< 1	130	< 3	67,000	< 10	< 0.2	< 20	540	< 5	< 1	74,000	1	< 10	< 20	630
	08/12/04	< 100	< 1	< 5	NA	92	< 2	< 1	46,000	32	< 10	< 1	< 100	< 3	70,000	19	< 0.2	< 20	580	< 5	< 1	77,000	< 1	< 10	< 20	740
DUP0812042A	08/12/04	< 100	< 1	< 5	NA	95	< 2	< 1	50,000	33	< 10	< 1	140	< 3	73,000	< 10	< 0.2	< 20	620	< 5	< 1	80,000	< 1	< 10	< 20	660
	05/26/04	< 100	< 1	< 5	NA	91	< 2	< 1	50,000	29	< 10	< 1	110	< 3	75,000	< 10	< 0.2	< 20	560	< 5	< 1	83,000	< 1	< 10	< 20	760
	03/15/04	< 100	< 1	< 5	NA	92	< 2	< 1	47,000	31	< 10	5.5	< 100	< 3	74,000	< 10	< 0.2	< 20	620	< 5	< 1	79,000	< 1	12	< 20	730
	12/09/03	< 100	1.6	< 5	NA	100	< 2	< 1	53,000	32	< 10	1.7	330	< 3	80,000	< 10	< 0.2	< 20	620	< 5	< 1 UJ	85,000	< 1	< 10	< 20	610
	08/14/03	< 100	< 1	< 5	NA	90	< 2	< 1	49,000	33	< 10	< 1	210	< 3	73,000	< 10	< 0.2	< 20	570	< 5	< 1 UJ	78,000	< 1	< 10	< 20	710
	06/10/03	< 100	< 1	< 5	NA	77	< 2	< 1	49,000	28	< 10	< 1	< 100	< 3	74,000	< 10	< 0.2	< 20	550	< 5	< 1	76,000	< 1	< 10	< 20	630
	03/19/03	< 100 UJ	< 1	< 1	NA	76	< 1	< 1	59,000 J	28 J	< 1	< 1	< 100	< 3	95,000 J	< 10 UJ	< 0.2	6.8	600	< 5	< 1 UJ	100,000 J	< 1	< 10	< 10	740
	12/06/02	< 100	< 1	< 1	NA	86	< 1	< 1	46,000	33	< 1	1.1	130	< 3	69,000	< 10 UJ	< 0.2	7.2	570	< 5	< 1 UJ	76,000	< 1	< 10	< 10	650
	09/05/02	< 100	1.4	< 1	NA	410	< 1	< 1	47,000	34	< 1	< 1	100	< 3	73,000	< 10	< 0.2	7.1	770	< 5	< 1 UJ	82,000	< 1	< 10	**130**	630 J-
	06/05/02	< 100	< 1	< 1	NA	400	< 1	< 1	48,000	34	< 1	< 1	180	< 3	76,000	< 10	< 0.2	7.1	780	< 5	< 1	82,000	< 1	< 10	**130**	640
	03/13/02	< 100	< 1	< 1	NA	410	< 1	< 1	48,000	30	< 1	< 1	140	< 3	75,000	< 10	< 0.2	6.7	780	< 5	< 1 UJ	84,000	< 1	< 10	96	650
	12/04/01	< 100	1.6	< 1	NA	620	< 1	< 1	53,000	37 J	< 1	9.9	< 100	< 3	80,000	< 10	< 0.2	9.5 J	1,300	< 5	< 1	92,000	< 1	< 10	**260**	680
	08/29/01	< 100	1	< 1	NA	750 J+	< 1	< 1	44,000	36	< 1	1.5	200	< 3	74,000	< 10	< 0.2	7.1	940	< 5	< 1 UJ	82,000	< 1	< 10	**170**	630
	05/17/01	< 100	< 1	< 1	NA	170	< 1	< 1	< 500 R	35 J	< 1	< 1	330	< 3	270,000	< 10	< 0.2	6.5	690 J	< 5	< 1	300,000	< 1	< 10	20	610
	07/19/00	NA	< 60	< 5	NA	58	< 2	< 5	NA	27	< 20	< 10	NA	< 3	NA	NA	< 0.2	< 20	NA	< 5	< 5	NA	< 5	< 10	< 20	NA

Table A-3-3
Results of Dissolved Metals Analyses
Fill Site 6
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [2]		--	**6**	**10**	**10**	**1,000**	**4**	**1.1**	--	**50**	--	**11.8**	--	**3.2**	--	--	**0.012**	**100**	--	**5**	**4.1**	--	**1.7**	--	**106**	--
LF6GW104	02/28/07	< 100	< 1	< 5	NA	44	< 2	< 1	37,000	12	< 10	< 1	< 100	< 3	59,000	< 10	NA	< 20	< 500	< 5	< 1	59,000	< 1	< 10	< 20	620
	12/06/06	< 100	< 1	< 5	NA	40	< 2	< 1	34,000	13	< 10	< 1	< 100	< 3	59,000	< 10	< 0.2	< 20	< 500	< 5	< 1	60,000 J	< 1	< 10	< 20	540 J-
	05/23/06	< 100 UJ	< 1	< 5	NA	37	< 2	< 1	36,000	12	< 10	2.9	< 100	< 3	56,000	13	< 0.2	< 20	610	< 5	< 1	69,000	< 1	< 10	< 20	700
	03/17/06	< 100	< 1	< 5	NA	46	< 2	< 1	41,000	18	< 10	< 1	< 100	< 3	65,000 J	10	< 0.2	< 20	< 500 UJ	< 5	< 1	69,000	< 1	< 10	< 20	770
	12/07/05	< 100	< 1	< 5	NA	33	< 2	< 1	49,000	32	< 10	< 1	320	< 3	85,000	19	< 0.2	< 20	1,800	< 5	< 1	84,000	< 1	< 10	< 20	810
LF6GW105	02/27/07	< 100	< 1	< 5	NA	51	< 2	< 1	39,000	30	< 10	< 1	< 100	< 3	62,000	< 10	NA	< 20	< 500	< 5	< 1	74,000	< 1	< 10	< 20	610
DUP0227072A	02/27/07	< 100	< 1	< 5	NA	49	< 2	< 1	40,000	30	< 10	< 1	< 100	< 3	64,000	< 10	NA	< 20	530	< 5	< 1	79,000	< 1	< 10	< 20	590
LF6GW105CL	02/27/07	< 50	< 0.05	7	NA	48.7	< 0.02	0.02	36,900	30.6	0.59	1.3	< 20	0.04	60,500	< 5	NA	7.9	< 2,000	< 3 N	< 0.02	81,300	< 0.03	< 10	< 10	610 J-
	12/06/06	< 100	< 1	< 5	NA	57	< 2	< 1	39,000	31	< 10	< 1	< 100	< 3	64,000	17	< 0.2	< 20	540	< 5	< 1	79,000 J	< 1	< 10	< 20	590 J-
	08/16/06	< 100	< 1	< 5	NA	41	< 2	< 1	39,000	28	< 10	< 1	< 100	< 3	65,000	32	< 0.2 UJ	< 20	810	< 5	< 1	82,000	< 1	< 10	< 20	670
	05/23/06	< 100 UJ	< 1	< 5	NA	46	< 2	< 1	40,000	34	< 10	< 1	< 100	< 3	61,000	< 10	< 0.2	< 20	780	< 5	< 1	85,000	< 1	< 10	< 20	750
	03/20/06	< 100	< 1	< 5	NA	51	< 2	< 1	45,000	34	< 10	< 1	< 100	< 3	67,000	< 10	< 0.2	< 20	700	< 5	< 1	85,000	< 1	< 10	< 20	610
	12/07/05	< 100	< 1	< 5	NA	43	< 2	< 1	41,000	40	< 10	< 1	280	< 3	65,000	< 10	< 0.2	< 20	1,100	< 5	< 1	88,000	< 1	< 10	< 20	690
LF6GW106	02/28/07	< 100	< 1	< 5	NA	53	< 2	< 1	38,000	23	< 10	< 1	< 100	< 3	63,000	< 10	NA	< 20	< 500	< 5	< 1	83,000	< 1	< 10	< 20	680
	12/06/06	< 100	< 1	< 5	NA	42	< 2	< 1	36,000	22	< 10	< 1	< 100	< 3	64,000	< 10	< 0.2	< 20	< 500	< 5	< 1	93,000 J	< 1	< 10	< 20	610 J-
	08/16/06	< 100	< 1	< 5	NA	38	< 2	< 1	37,000	22	< 10	< 1	130	< 3	67,000	< 10	< 0.2 UJ	< 20	610	< 5	< 1	91,000	< 1	< 10	< 20	< 50
	05/23/06	< 100 UJ	< 1	< 5	NA	32	< 2	< 1	35,000	21	< 10	< 1	< 100	< 3	57,000	< 10	< 0.2	< 20	730	< 5	< 1	82,000	< 1	< 10	< 20	480
	03/20/06	< 100	< 1	< 5	NA	36	< 2	< 1	42,000	23	< 10	< 1	< 100	< 3	68,000	< 10	< 0.2	< 20	710	< 5	< 1	82,000	< 1	< 10	< 20	600
	12/07/05	< 100	< 1	< 5	NA	22	< 2	< 1	29,000	24	< 10	< 1	230	< 3	54,000	11	< 0.2	< 20	900	< 5	< 1	64,000	< 1	< 10	< 20	770
231GW09	06/05/07	< 100	NA	< 5	NA	NA	NA	< 1	26,000	23	NA	< 1	< 100	< 3	42,000	< 10	NA	< 20	< 500	NA	NA	62,000	NA	NA	< 20	470 J
	02/27/07	< 100	< 1	< 5	NA	53	< 2	< 1	28,000	24	< 10	< 1	< 100	< 3	47,000	< 10	NA	< 20	< 500	< 5	< 1	68,000	< 1	< 10	< 20	510
DUP0227072C	02/27/07	< 100	< 1	< 5	NA	52	< 2	< 1	28,000	22	< 10	< 1	< 100	< 3	46,000	< 10	NA	< 20	< 500	< 5	< 1	68,000	< 1	< 10	< 20	490
231GW09CL	02/27/07	< 50	< 0.05	4.7	NA	55.5	< 0.02	0.09	26,200	23	0.39	1	< 20	< 0.02	45,200	< 5	NA	17.4	< 2,000	< 3 N	< 0.02	73,300	< 0.03	< 10	< 10	500 J-
	12/05/06	< 100	< 1	< 5	NA	58	< 2	< 1	25,000	26	< 10	< 1	< 100	< 3	41,000	< 10	< 0.2	< 20	< 500 UJ	< 5	< 1	64,000	< 1	< 10	< 20	520 J+
DUP1205062B	12/05/06	< 100	< 1	< 5	NA	56	< 2	< 1	25,000	26	< 10	< 1	180	< 3	40,000	< 10	< 0.2	< 20	< 500 UJ	< 5	< 1	66,000	< 1	< 10	< 20	530 J+
231GW09CL	12/05/06	< 100 U	< 2 U	< 2 U	NA	63	< 1 U	< 1 U	30,200	30	< 1 U	< 2 U	< 100 U	< 1 U	51,000	< 10 U	< 1 U	18	< 5000 U	< 2 U	< 1 U	78,000	< 1 U	< 10 U	< 20 U	490
	08/15/06	< 100	< 1	< 5	NA	52	< 2	< 1	27,000	26	< 10	< 1	< 100	< 3	42,000	< 10	< 0.2 UJ	23	< 500	< 5	< 1	68,000	< 1	< 10	< 20	490
	05/24/06	< 100	< 1	< 5	NA	61	< 2	< 1	27,000	24	< 10	< 1	< 100	< 3	48,000	< 10	< 0.2	43	< 500	< 5	< 1	76,000	< 1	< 10	< 20	480
	03/15/06	< 100	< 1	< 5	NA	31	< 2	< 1	15,000	15	< 10	< 1	< 100	< 3	24,000	< 10	< 0.2	29	< 500	< 5	< 1	42,000	< 1	< 10	< 20	320 J
	11/29/05	< 100	< 1	< 5	NA	49	< 2	< 1	22,000	23 J	< 10	< 1	< 100	< 3	39,000	< 10	< 0.2	< 20	< 500	< 5	< 1	63,000	< 1	< 10	< 20	470
DUP1129052A	11/29/05	< 100	< 1	< 5	NA	49	< 2	< 1	24,000	23 J	< 10	1.1	< 100	< 3	40,000	< 10	< 0.2	< 20	< 500	< 5	< 1	64,000	< 1	< 10	< 20	540
	08/31/05 [3]	NA	NA	NA	0.405 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	NA	NA	NA	NA	NA	480
	06/01/05	< 100	< 1	< 5	0.371	48 J	< 2	< 1	28,000	20	< 10	< 1	< 100	< 3	41,000	< 10	< 0.2	40	< 500 UJ	< 5	< 1	63,000	< 1	< 10	< 20	460
	04/04/05	< 100	< 1	< 5	0.344	46	< 2	< 1	25,000	19	< 10	< 1	< 100	< 3	41,000	< 10	< 0.2	85	< 500	< 5	< 1	62,000	1.2	< 10	< 20	450
	12/17/04	< 100	< 1	< 5	NA	53	< 2	< 1	25,000	21	< 10	< 1	< 100	< 3	42,000	< 10	< 0.2	36	< 500	< 5	< 1	65,000	< 1	< 10	< 20	490
DUP1217042A	12/17/04	< 100	< 1	< 5	NA	54	< 2	< 1	26,000	22	< 10	< 1	< 100	< 3	43,000	< 10	< 0.2	36	< 500	< 5	< 1	67,000	< 1	< 10	< 20	470
	08/12/04	< 100	< 1	< 5	NA	58	< 2	< 1	29,000	23	< 10	< 1 U	110	< 3	47,000	< 10	< 0.2	63	< 500	< 5	< 1	72,000	< 1	< 10	< 20	430
	05/27/04	< 100	< 1	< 5	NA	52	< 2	< 1	27,000	23	< 10	< 1	< 100	< 3	45,000	12	< 0.2	27	< 500	< 5	< 1	69,000	< 1	< 10	< 20	490
DUP0527042C	05/27/04	< 100	< 1	< 5	NA	53	< 2	< 1	28,000	24	< 10	< 1	< 100	< 3	47,000	12	< 0.2	27	< 500	< 5	< 1	71,000	< 1	< 10	< 20	510
231GW09CL	05/27/04	< 50	< 5	< 5	NA	54	< 1	< 1	28,000	23	< 7	**18**	570	< 3	45,000	14	< 0.2	28	NA	NA	NA	NA	NA	NA	NA	420
	03/18/04	< 100	< 1	< 5	NA	51	< 2	< 1	29,000	20	< 10	< 1	< 100	< 3	46,000	< 10	< 0.2	36	< 500	< 5	< 1 UJ	74,000	< 1	< 10	< 20	510 J
	12/04/03	< 100	2.9	< 5	NA	57	< 2	< 1	22,000	22	< 10	< 1	< 100	< 3	46,000	< 10	< 0.2	29	< 500	< 5	< 1	67,000	1.2	< 10	< 20	490
	08/15/03	< 100	1.1	< 5	NA	53	< 2	< 1	26,000	24	< 10	< 1	120	< 3	43,000	< 10	< 0.2	26	< 500	< 5	< 1 UJ	65,000	< 1	< 10	< 20 UJ	440
	06/10/03	< 100	< 1	< 5	NA	51	< 2	< 1	28,000	22	< 10	< 1	< 100	< 3	47,000	< 10	< 0.2	24	< 500	< 5	< 1	67,000	< 1	< 10	< 20	470
	01/13/99	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	19.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	566
	10/14/98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	18.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	530
	07/15/98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	544
	04/20/98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	19.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	790
	01/28/98	166	NA	NA	NA	NA	NA	NA	60,200	< 1	< 10	< 1	8,640	NA	60,700	1,510	NA	< 5	< 5,000	NA	NA	129,000	NA	< 10	NA	542

Table A-3-3
Results of Dissolved Metals Analyses
Fill Site 6
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [2]		**--**	**6**	**10**	**10**	**1,000**	**4**	**1.1**	**--**	**50**	**--**	**11.8**	**--**	**3.2**	**--**	**--**	**0.012**	**100**	**--**	**5**	**4.1**	**--**	**1.7**	**--**	**106**	**--**
231GW09	10/23/97	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	523
	07/24/97	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	592
	04/22/97	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 100 J	NA	NA	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	584
	01/28/97	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	557

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - From Table 3 of the RAP (Treadwell & Rollo, 2003c).
3 - Due to computer/review error by the laboratory, sample 231GW09 was not analyzed by ICP-MS for the list of 22 metals. The sample had already been disposed of when the omission was discovered.
µg/L - micrograms per liter
mg/L - milligrams per liter
NA - Not analyzed
Groundwater samples collected from all site monitoring wells were field filtered and analyzed for dissolved metals.
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.
Bold numbers indicate concentrations that exceed cleanup levels.
-- Cleanup level not established.

Table A-3-4
Results of Arsenic Speciation Analyses
Fill Site 6
Presidio of San Francisco, California

Location ID	Sample Date	Inorganic Arsenic (As)	Arsenite (As III)	Arsenate (As V) [2]	Percentage of As III	Percentage of As V
	Analytical Method[1]	1632M	1632M	1632M	--	--
		(µg/L)	(µg/L)	(µg/L)	%	%
Cleanup Levels [3]		**10**	--	--	--	--
LF6GW100	04/04/05	0.792	< 0.025 U	0.792	0	100
LF6GW101	04/04/05	1.22	< 0.025 U	1.22	0	100
LF6GW102	04/04/05	0.851 J	0.483 J	0.368 J	57	43
LF6GW103	04/05/05	0.386 J	< 0.025 U	0.386 J	0	100
DUP0405053A	04/05/05	0.397 J	< 0.025 U	0.397 J	0	100
231GW09	08/31/05	0.405 J	< 0.025 JU	0.405 J	0	100
	06/01/05	0.371	< 0.025 U	0.371	0	100
	04/04/05	0.344	< 0.025 U	0.344	0	100

Notes

1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001.

2 - The concentration of As V was determined by the laboratory by subtracting the As III concentration from the inorganic As concentration. As III has been detected at greater concentrations than inorganic As, due to analytical variability. As V is reported as non-detect when As III is detected at a greater concentration than inorganic As.

3 - From Table 3 of the RAP (Treadwell & Rollo, 2003c).

-- Cleanup level not established.

µg/L - micrograms per liter

CL suffix denotes a quality control duplicate sample was sent to the control laboratory.

Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.

Table 11 in the main report identifies current and historical data qualifiers.

Table A-3-5
Results of Dissolved Gas and TOC Analyses
Fill Site 6
Presidio of San Francisco, California

Location ID	Sample Date	Ethane	Ethene	Methane	TOC
	Analytical Method[1]	RSK 175	RSK 175	RSK 175	SW9060
		mg/L	mg/L	mg/L	mg/L
LF6GW100	03/17/06	NA	NA	NA	3.5
	04/04/05	< 0.005	< 0.005	<0.005	3.0
LF6GW101	03/17/06	NA	NA	NA	1.4
	04/04/05	< 0.005	< 0.005	<0.005	1.5
LF6GW102	04/04/05	< 0.005	< 0.005	0.52	14
LF6GW103	03/17/06	NA	NA	NA	1.5
	04/04/05	0.026	< 0.005	<0.005	1.4
DUP0405053A	04/05/05	< 0.005	< 0.005	< 0.005	1.4
LF6GW103CL	04/05/05	< 0.0005 U	< 0.0015 U	< 0.0005 U	1.4
LF6GW104	03/17/06	NA	NA	NA	3
LF6GW105	03/20/06	NA	NA	NA	1.9
LF6GW106	03/20/06	NA	NA	NA	3
231GW09	03/15/06	NA	NA	NA	0.88
	11/29/05	< 0.005	< 0.005	< 0.005	1.3
DUP1129052A	11/29/05	< 0.005	< 0.005	< 0.005	0.99
	08/31/05	< 0.005	< 0.005	< 0.005	1.1
	06/01/05	< 0.005	< 0.005	< 0.005	1.2 J
	04/04/05	< 0.005	< 0.005	<0.005	1.3

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the First Quarter 2005.
mg/L - milligrams per liter
NA - Not analyzed
TOC - Total Organic Carbon
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-3-6
Groundwater Elevation Summary
Fill Site 6
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF6GW100	02/26/07	12.97	28.73	15.76	MW
	12/04/06	13.04	28.73	15.69	MW
	08/14/06	12.59	28.73	16.14	MW
	05/22/06	12.17	28.73	16.56	MW
	03/06/06	12.02	28.73	16.71	MW
	11/28/05	12.78	28.73	15.95	MW
	08/29/05	12.22	28.73	16.51	MW
	05/23/05	12.05	28.73	16.68	MW
	03/14/05	12.30	28.73	16.43	MW
	12/13/04	13.23	28.73	15.50	MW
	08/09/04	13.70	28.73	15.03	MW
	05/24/04	13.74	28.73	14.99	MW
	03/08/04	13.78	28.73	14.95	MW
	12/01/03	16.02	28.73	12.71	MW
	08/11/03	17.45	28.73	11.28	MW
	06/02/03	17.31	28.73	11.42	MW
	03/10/03	15.36	28.73	13.37	MW
	12/02/02	13.73	28.73	15.00	MW
	08/26/02	13.22	28.73	15.51	MW
	05/28/02	13.02	28.73	15.71	MW
	03/04/02	12.60	28.73	16.13	MW
	11/26/01	13.25	28.73	15.48	MW
	08/27/01	13.47	28.73	15.26	MW
	05/08/01	12.87	28.73	15.86	MW
LF6GW101	02/26/07	11.98	27.03	15.05	MW
	12/04/06	12.08	27.03	14.95	MW
	08/14/06	11.63	27.03	15.40	MW
	05/22/06	11.20	27.03	15.83	MW
	03/06/06	11.13	27.03	15.90	MW
	11/28/05	11.80	27.03	15.23	MW
	08/29/05	11.13	27.03	15.90	MW
	05/23/05	10.93	27.03	16.10	MW
	03/14/05	11.18	27.03	15.85	MW
	12/13/04	11.85	27.03	15.18	MW
	08/09/04	12.25	27.03	14.78	MW
	05/24/04	12.48	27.03	14.55	MW
	03/08/04	12.67	27.03	14.36	MW
	12/01/03	14.31	27.03	12.72	MW
	08/11/03	15.14	27.03	11.89	MW
	06/02/03	14.85	27.03	12.18	MW
	03/10/03	13.15	27.03	13.88	MW
	12/02/02	12.27	27.03	14.76	MW
	08/26/02	11.68	27.03	15.35	MW
	05/28/02	11.74	27.03	15.29	MW
	03/04/02	11.31	27.03	15.72	MW
	11/26/01	12.05	27.03	14.98	MW
	08/27/01	12.14	27.03	14.89	MW
	05/08/01	11.44	27.03	15.59	MW
LF6GW102 [2]	05/23/05	NM	36.87	NM	MW
	03/14/05	19.75	36.87	17.12	MW
	12/13/04	21.70	36.87	15.17	MW
	08/09/04	22.35	36.87	14.52	MW
	05/24/04	21.86	36.87	15.01	MW
	03/08/04	20.50	36.87	16.37	MW
	12/01/03	23.06	36.87	13.81	MW
	08/11/03	23.22	36.87	13.65	MW
	06/02/03	22.72	36.87	14.15	MW

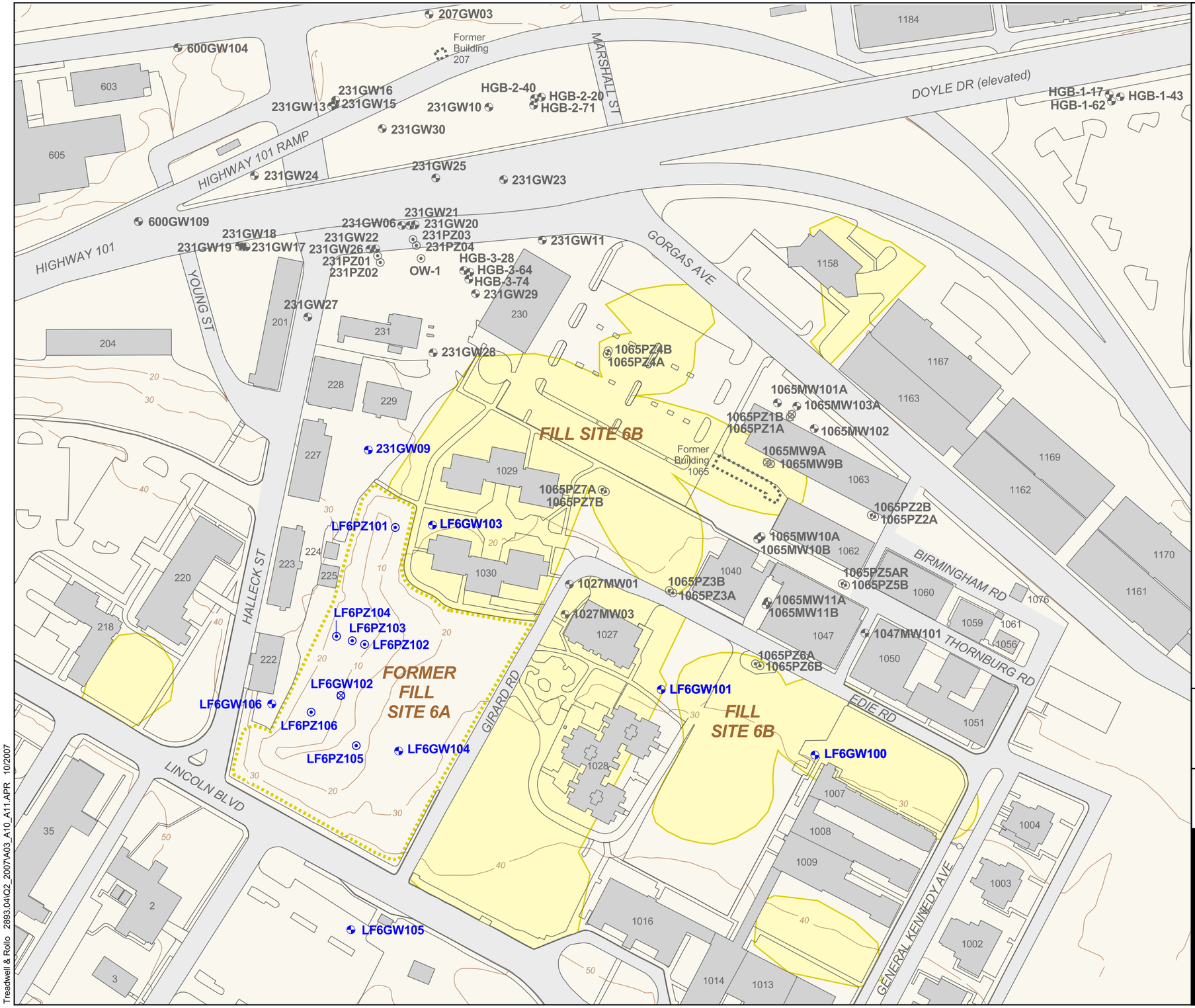
Table A-3-6
Groundwater Elevation Summary
Fill Site 6
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF6GW102 [2]	03/10/03	21.53	36.87	15.34	MW
	12/02/02	22.23	36.87	14.64	MW
	08/26/02	21.87	36.87	15.00	MW
	05/28/02	21.60	36.87	15.27	MW
	03/04/02	20.86	36.87	16.01	MW
	11/26/01	21.93	36.87	14.94	MW
	08/27/01	22.15	36.87	14.72	MW
	05/08/01	21.62	36.87	15.25	MW
LF6GW103	02/26/07	7.50	18.41	10.91	MW
	12/04/06	7.61	18.41	10.80	MW
	08/14/06	7.37	18.41	11.04	MW
	05/22/06	7.15	18.41	11.26	MW
	03/06/06	7.09	18.41	11.32	MW
	11/28/05	7.25	18.41	11.16	MW
	08/29/05	6.10	18.41	12.31	MW
	05/23/05	5.50	18.41	12.91	MW
	03/14/05	6.08	18.41	12.33	MW
	12/13/04	6.53	18.41	11.88	MW
	08/09/04	6.78	18.41	11.63	MW
	05/24/04	6.68	18.41	11.73	MW
	03/08/04	6.40	18.41	12.01	MW
	12/01/03	7.70	18.41	10.71	MW
	08/11/03	7.73	18.41	10.68	MW
	06/02/03	7.52	18.41	10.89	MW
	03/10/03	6.36	18.41	12.05	MW
	12/02/02	6.46	18.41	11.95	MW
	08/26/02	6.23	18.41	12.18	MW
	05/28/02	6.18	18.41	12.23	MW
	03/04/02	5.82	18.41	12.59	MW
	11/26/01	6.57	18.41	11.84	MW
	08/27/01	6.56	18.41	11.85	MW
	05/08/01	6.26	18.41	12.15	MW
LF6GW104	02/26/07	12.77	28.75	15.98	MW
	12/04/06	10.12	25.74	15.62	MW
	08/14/06	NM	25.74	NM	MW
	05/22/06	9.35	25.74	16.39	MW
	03/06/06	9.23	25.74	16.51	MW
	11/28/05	10.25	25.74	15.49	MW
LF6GW105	02/26/07	22.43	41.97	19.54	MW
	12/04/06	22.55	41.97	19.42	MW
	08/14/06	22.15	41.97	19.82	MW
	05/22/06	21.33	41.97	20.64	MW
	03/06/06	21.70	41.97	20.27	MW
	11/28/05	22.68	41.97	19.29	MW
LF6GW106	02/26/07	10.69	25.69	15.00	MW
	12/04/06	10.33	25.69	15.36	MW
	08/14/06	10.07	25.69	15.62	MW
	05/22/06	9.65	25.69	16.04	MW
	03/06/06	9.72	25.69	15.97	MW
	11/28/05	10.47	25.69	15.22	MW
LF6PZ101 [4]	02/26/07	1.21	10.44	9.23	PZ
	12/04/06	1.06	10.44	9.38	PZ
	08/14/06	1.23	10.44	9.21	PZ
	05/22/06	0.92	10.44	9.52	PZ
	03/06/06	0.90	10.44	9.54	PZ
LF6PZ102 [4]	02/26/07	0.19	11.59	11.40	PZ
	12/04/06	0.45	11.59	11.14	PZ
	08/14/06	0.58	11.59	11.01	PZ
	05/22/06	0.00	11.59	11.59	PZ
	03/06/06	0.00	11.59	11.59	PZ

Table A-3-6
Groundwater Elevation Summary
Fill Site 6
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF6PZ103[4]	02/26/07	2.95	14.09	11.14	PZ
	12/04/06	3.12	14.09	10.97	PZ
	08/14/06	3.16	14.09	10.93	PZ
	05/22/06	2.90	14.09	11.19	PZ
	03/06/06	2.70	14.09	11.39	PZ
LF6PZ104[4]	02/26/07	7.00	17.45	10.45	PZ
	12/04/06	7.21	17.45	10.24	PZ
	08/14/06	7.17	17.45	10.28	PZ
	05/22/06	7.09	17.45	10.36	PZ
	03/06/06	6.82	17.45	10.63	PZ
LF6PZ105[4]	02/26/07	0.25	13.75	13.50	PZ
	12/04/06	0.31	13.75	13.44	PZ
	08/14/06	0.87	13.75	12.88	PZ
	05/22/06	0.70	13.75	13.05	PZ
	03/06/06	0.67	13.75	13.08	PZ
LF6PZ106[4]	02/26/07	4.76	15.23	10.47	PZ
	12/04/06	4.90	15.23	10.33	PZ
	08/14/06	4.90	15.23	10.33	PZ
	05/22/06	4.82	15.23	10.41	PZ
	03/06/06	4.45	15.23	10.78	PZ
231GW09	06/04/07	13.41	24.28	10.87	MW
	02/26/07	13.17	24.28	11.11	MW
	12/04/06	13.35	24.28	10.93	MW
	08/14/06	13.47	24.28	10.81	MW
	05/22/06	12.80	24.28	11.48	MW
	03/06/06	12.60	24.28	11.68	MW
	11/28/05	13.11	24.28	11.17	MW
	08/29/05	12.36	24.28	11.92	MW
	05/23/05	11.15	24.28	13.13	MW
	03/14/05	11.50	24.28	12.78	MW
	12/13/04	12.18	24.28	12.10	MW
	08/09/04	12.75	24.28	11.53	MW
	05/24/04	12.63	24.28	11.65	MW
	03/08/04	12.22	24.28	12.06	MW
	12/01/03	13.15	24.28	11.13	MW
	08/11/03	13.38	24.28	10.90	MW
	06/02/03	13.22	24.28	11.06	MW
	03/10/03	12.25	24.28	12.03	MW
	12/02/02	12.43	24.28	11.85	MW
	08/26/02	12.26	24.28	12.02	MW
	05/28/02	12.20	24.28	12.08	MW
	03/04/02	11.97	24.28	12.31	MW
	11/26/01	12.31 [3]	24.28	11.97	MW
	08/27/01	12.65	24.28	11.63	MW
	05/08/01	12.06	24.28	12.22	MW

Notes
1 - All depth to water measurements are an average of three measurements recorded in the field.
2 - Well was abandoned during the Second Quarter 2005.
3 - The depth to water was improperly recorded as 2.31 feet rather than 12.31 feet on 26 November 2001.
4 - Piezometer water levels are associated with local surface stream water levels.
MW- Monitoring well
NM - Not measured
PZ - Piezometer
feet PLLW - feet above Presidio Lower Low Water vertical datum



N

150 0 150 Feet

LEGEND

- LF6GW100 — Shallow Groundwater Monitoring Well
- LF6PZ101 — Shallow Piezometer
- LF6GW102 — Shallow Groundwater Monitoring Well abandoned between Q1/Q2 2005
- 231GW20 — Adjacent Study Area Well
- 231PZ01 — Adjacent Study Area Piezometer
- 1065PZ1A — Abandoned Groundwater Monitoring Well / Piezometer
- Topographic Contour (Contour Interval: 10 ft)
- Former Building Outline
- Former Fill Site 6A Excavation Boundary
- Approximate Lateral Extent of Fill Site 6B
- 201 — Building and Number

Notes:
Location of limits of fill from Revised Main Installation Sites Feasibility Study (EKI, 2003).

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datum: (topography) North American Vertical Datum, NAVD88

FILL SITE 6 AREA SITE PLAN

Treadwell&Rollo

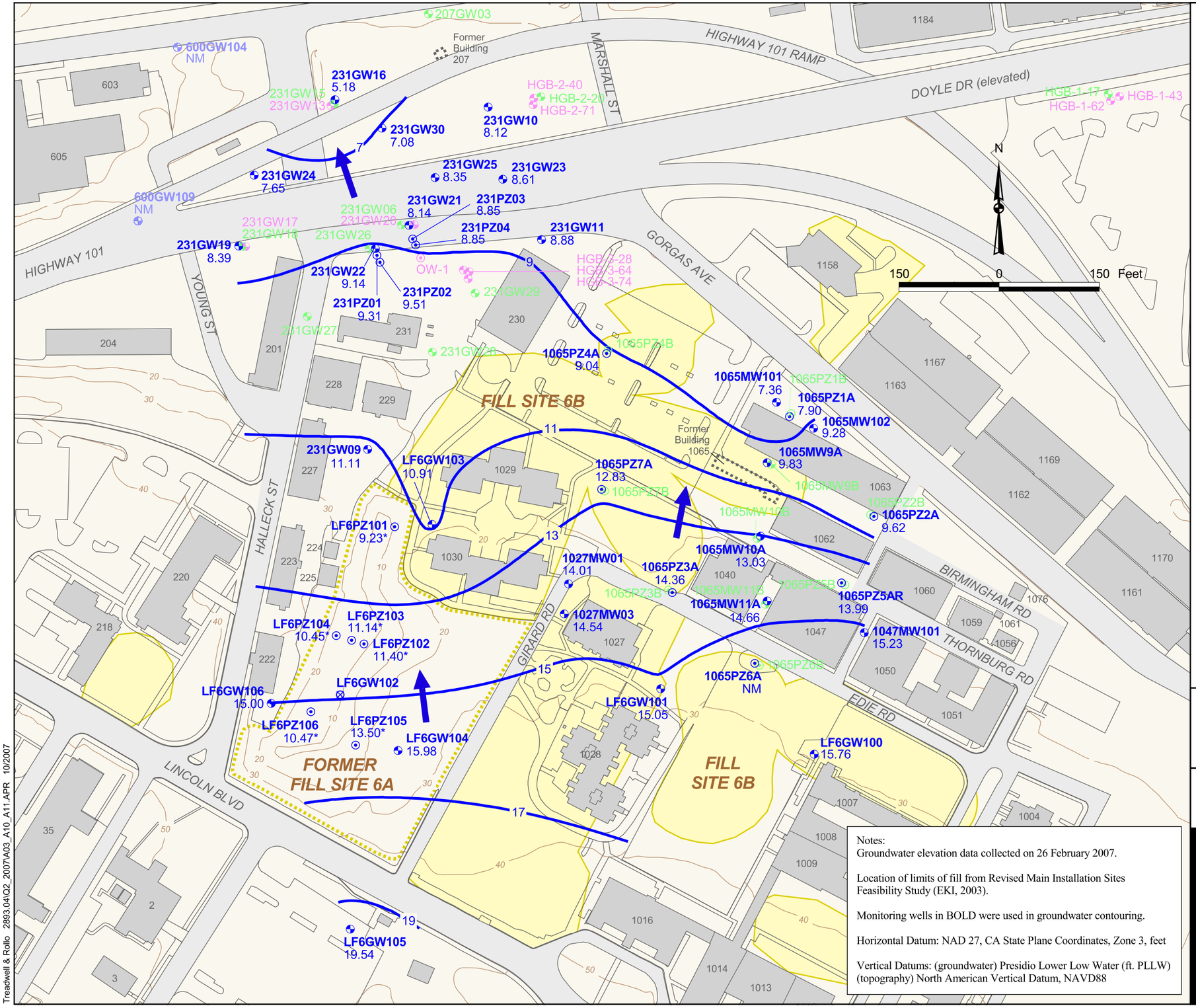
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October 2007

FIGURE A-3-1

Treadwell & Rollo 2893.04\Q2_2007\A03_A10_A11.APR 10/2007



LEGEND

LF6GW101 15.05	Shallow Groundwater Monitoring Well February 2007 Groundwater Elevation
LF6PZ101 9.23*	Shallow Piezometer February 2007 Groundwater Elevation
*	Shallow Piezometer not used for groundwater contouring.
NM	Not measured
LF6GW102	Abandoned Shallow Groundwater Monitoring Well
600GW104	Adjacent Study Area Shallow Groundwater Well
231GW15	Intermediate Groundwater Monitoring Well
1065PZ1B	Intermediate Piezometer
231GW17	Deep Groundwater Monitoring Well
OW-1	Deep Piezometer
	Approximate Direction of Groundwater Flow
	Groundwater Contour (Contour Interval: 2 ft)
	Topographic Contour (Contour Interval: 10 ft)
	Former Building Outline
	Former Fill Site 6A Excavation Boundary
	Approximate Lateral Extent of Fill Site 6B
201	Building and Number

FILL SITE 6, BUILDINGS 231/207 AND BUILDINGS 1065/1027 26 FEBRUARY 2007 SHALLOW GROUNDWATER ELEVATION MAP

Notes:
Groundwater elevation data collected on 26 February 2007.

Location of limits of fill from Revised Main Installation Sites Feasibility Study (EKI, 2003).

Monitoring wells in BOLD were used in groundwater contouring.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

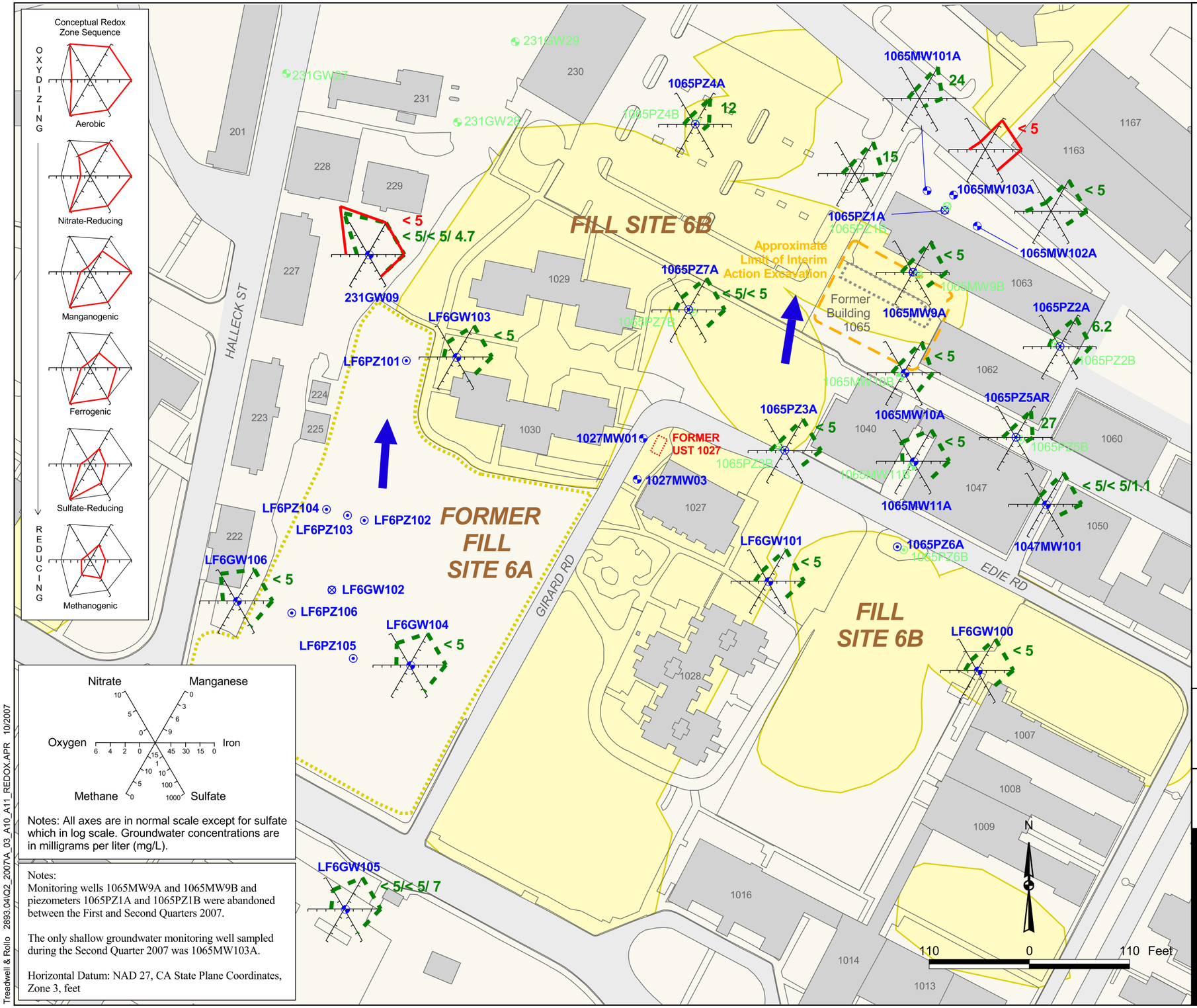
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FIGURE A-3-2

Treadwell & Rollo 2893.04\Q2_2007\A03_A10_A11.APR 10/2007



FILL SITE 6 AND BUILDING 1065/1027 REDOX DIAGRAMS FOR SHALLOW GROUNDWATER

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FIGURE A-3-3

Treadwell & Rollo 2893.04\Q2_2007\A_03_A10_A11_REDOX.APR 10/2007

First Quarter 2007

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Fill Slk 6B | Well No.: LF6GW100

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 2/28/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 22.82

Depth to Water (WL, ft. below TOC): 12.84

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disposable

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[X] Other:

PURGE VOLUME CALCULATION

9.98 (Water Column Length) X — (Water Volume/ft) X — (No. Vols) = gals CALCULATED PURGE VOLUME

Total Purge Time: 10 min

Recharge Rate: —

Purge Rate: 0.25 gpm

2.25 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Hach / Orion / Horiba / YSI

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1323	/	0	8.0	13.9	Pre 0.33	632	—	41	clear
1326	/	0.75	7.3	14.4	—	629	—	211	cloudy
1329	/	1.50	7.0	14.5	—	622	—	367	"
1332	/	2.25	7.0	14.7	Post 0.67	618	132	702	"
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other: Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 2/28/07 / 1345

Purging Equipment: Pump - Type: N/A | Bailer - Type: Disposable | Other:

Sample Filtered: (Yes) No | Filtered Sample Analysis: Dissolved Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF6GW100	6 X 1 L NP Amb's	CTT	21882	
	1 X 500 mL HNO3 Poly			
	1 X 500 mL NP Poly			
	1 X 500 mL NaOH + ZnAc			

QUALITY CONTROL SAMPLES 3 X 40 mL HCl Vials

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Fill Site 6B | Well No.: LF6GW101
Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: DR | Sampled by: DR | Date: 2/28/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 24.80
Depth to Water (WL, ft. below TOC): 11.84
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disposable
[ ] Normal [ ] Pump \ Type:
[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):
[ ] Near Bottom Depth (ft):
[X] Other:

PURGE VOLUME CALCULATION

12.96 (Water Column Length) x — (Water Volume/ft) x — (No. Vols) = — gals CALCULATED PURGE VOLUME

Total Purge Time: 10 min
Recharge Rate: —
Purge Rate: 0.25 gpm

3.25 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI / Itach / Ultrameter / Orion

Time / Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1424 / 0	7.4	14.4	Pre 0.40	882	—	116	clear
1427 / 0.75	6.9	14.8	—	900	—	435	cloudy
1430 / 1.50	6.8	15.2	—	908	—	>1000	"
1433 / 2.25	6.8	15.2	Post 0.81	907	Post 183	>1000	"
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 2/28/07 / 1440

Purging Equipment: Pump - Type: N/A | Bailer - Type: Disposable | Other:

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Dissolved Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF6GW101	6 X 1L NP Amber	C+T	2182	
	1X 500 mL NP Poly			
	1X 500 mL HNO3 Poly			
	1X 500mL NaOH + Zinc Poly			

QUALITY CONTROL SAMPLES 3 x 40mL HCL vials

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: ~~LF6~~ Land fill 6 | Well No.: LF6GW103

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 2/28/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 24.89

Depth to Water (WL, ft. below TOC): 7.39

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disposable

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

17.5 (Water Column Length) X ___ (Water Volume/ft) X ___ (No. Vols) = ___ gals CALCULATED PURGE VOLUME

Total Purge Time: 10 min.

Recharge Rate: —

Purge Rate: 0.25 gpm

2.25 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Hach / Horiba / Ultrameter / YSI

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND µS/cm	ORP (mV)	Turbidity (NTU)	Comments
1225	0	7.3	14.5	Pre 0.18	914	—	30	clear
1228	0.75	7.0	14.7	—	881	—	82	"
1231	1.50	6.9	14.9	—	869	—	175	"
1234	2.25	6.9	15.0	Post 0.59	867	Post 119.1	310	cloudy

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 2/28/07 / 1235

Purging Equipment: Pump - Type: N/A | Bailer - Type: Disposable | Other:

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Dissolved Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF6GW103	6 x 1L NP Ambers	CFT	2182	
	1 500mL NP Poly			
	1 500 mL HNO_3 Poly			
	1 500 mL NaOH + Zinc	Poly		

QUALITY CONTROL SAMPLES 3 x 40 mL HCL Voas

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell & Rollo
Environmental and Geotechnical Consultants

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Fill Site 6 | Well No.: LF6 GW104

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 2/28/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 27.60

Depth to Water (WL, ft. below TOC): 12.71

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disposable

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[X] Other

PURGE VOLUME CALCULATION

14.89 (Water Column Length) x — (Water Volume/ft) x — (No. Vols) = gals CALCULATED PURGE VOLUME

Total Purge Time: 10 min

Recharge Rate: —

Purge Rate: 0.25 gpm

2.25 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Hach / Oakton / Ultrameter / YSI

Time	/	Liters or Gallons	pH	Temp @ °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1051	/	0	6.8	14.7	Post 0.21	989	—	183	cloudy
1054	/	0.75	7.0	15.5	—	1039	—	71000	"
1057	/	1.50	6.9	15.6	—	1030	—	71000	"
1100	/	2.25	6.8	15.7	Post 0.83	1029	Post 138	71000	"
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other: Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 2/28/07 / 1110

Purging Equipment: Pump - Type: N/A | Bailer - Type: Disposable | Other:

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Dissolved Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF6GW104	1 x 500mL NP Poly	CTI	7182	
	1 x 500mL HNO3 Poly			
	4 x 1L NP Amber			
	1 x 500mL NaOH + Zinc			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Fill Site 6A | Well No.: LF6GW105

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 2/27/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 29.83

Depth to Water (WL, ft. below TOC): 22.39

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp. bailer

[ ] Normal [ ] Pump \ Type:

[✓] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[X] Other:

PURGE VOLUME CALCULATION

7.44 (Water Column Length) x — (Water Volume/ft) x — (No. Vols) = gals CALCULATED PURGE VOLUME

Total Purge Time: 10min.

Recharge Rate: —

Purge Rate: 025 gpm.

3.35 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Ultrameter/orion Hach / YSI

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND mS/cm	ORP (mV)	Turbidity (NTU)	Comments
1020	0	6.0	15.2	Pre 0.32	1076	—	27	clear
1023	0.75	6.4	15.9	—	1008	—	>1000	cloudy/orange color
1026	1.50	6.4	16.1	—	992	—	>1000	"
1029	2.00	6.5	16.0	Post 0.82	975	Post 218	>1000	"

Comments: Broken expansion cap. Purge water storage/disposal: [ ] Drummed onsite [X] Other: Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 2/27/07 / 1035

Purging Equipment: Pump - Type: N/A | Bailer - Type: Disp. bailer | Other:

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Dissolved Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF6GW105	3x1L Poly NP	CT	7180	Collected MS/MSD
	3x500 mL Poly HNO3 FF			
	3x500mL NaOH+Zinc Poly			

QUALITY CONTROL SAMPLES

Duplicate | Duplicate Samples-Organics

Original Sample No.	Duplicate Sample No.
DUP022707 2A	LF6GW105
Time =	1055

1 LNP Poly
1 500mL HNO3 FF Poly
1 500mL NaOH+Zinc Poly

Lab = CAS

CAS Sample LF6GW105CL

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultants

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Land Fill 6 | Well No.: LF6 GW106

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 2/28/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 24.57

Depth to Water (WL, ft. below TOC): 10.49

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disposable

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[X] Other:

PURGE VOLUME CALCULATION

14.08 (Water Column Length) X ___ (Water Volume/ft) X ___ (No. Vols) = ___ gals CALCULATED PURGE VOLUME

Total Purge Time: 10 mins

Recharge Rate: ___

Purge Rate: 0.25 gpm

3.25 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Hach/Orion/Ultrameter/YSI

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1146	/	0	7.3	15.8	- Pre 0.31	982	—	812	
1149	/	0.75	6.9	15.9	—	1002	—	71000	
1152	/	1.50	6.8	16.1	—	1033	—	71000	
1155	/	2.25	6.8	16.2	Post 0.90	1081	Post 124	71000	
	/								
	/								
	/								
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	/								
	/								
	/								
	/								
	/								
	/								

Comments: ___ Purge water storage/disposal: [ ] Drummed onsite [X] Other: Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 2/28/07 / 1200

Purging Equipment: Pump - Type: N/A Bailer - Type: Disposable Other:

Sample Filtered: (Yes) / No Filtered Sample Analysis: Dissolved Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF6 GW106	1 500mL NP Poly	CAT	2182	
	1 500mL HNO3 Poly			
	1 500mL NaOH + Zinc Poly			
	4 x 1L NP Ambers			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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BATTERY HOWE/WAGNER
APPENDIX SECTION A-4
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2007
Presidio of San Francisco, California

1.0 INTRODUCTION AND BACKGROUND

Battery Howe/Wagner is located in the northwestern portion of the Presidio (Figure 1). The site ground surface elevation is approximately 175 to 220 feet above the PLLW datum. The five-acre site is bounded by Battery Wagner Road on the north and east, Upton Avenue to the west, and Ruckman Avenue to the south (Figure A-4-1).

Battery Howe/Wagner was the first 12-inch mortar fortification established in San Francisco (Dames & Moore, 1997). The fortification was constructed in 1893. The date the Battery Howe/Wagner site was decommissioned is unknown, although aerial photographs indicate the site was covered with fill some time between 1963 and 1968. Potential sources of contamination reportedly exist within the debris fill (Montgomery Watson, 1997a).

Erler & Kalinowski, Inc. (EKI) installed three new monitoring wells (HWGW100, HWGW101, and HWGW102) at Battery Howe/Wagner in July 2000 (Figure A-4-1). These groundwater monitoring wells were constructed between Building 1233 and existing monitoring wells BHWGW01, BHWGW04, and BHWGW05 to evaluate whether historical releases of carbon tetrachloride or other volatile organic compounds (VOCs), formerly stored within Building 1233, have occurred (EKI, 2000a). Monitoring wells HWGW100 and HWGW101 were installed, developed, and sampled using low-flow sampling methodologies in July 2000. Groundwater was not observed in monitoring well HWGW102 during drilling, well construction or during subsequent monitoring events. Therefore, groundwater samples have never been collected from monitoring well HWGW102.

Groundwater sampling events have taken place at Battery Howe/Wagner since August 1992 and samples have been analyzed for VOCs, dissolved and total metals, hexavalent chromium, and general chemistry parameters. Hexavalent chromium analysis was replaced by dissolved aluminum, chromium and iron analyses beginning with the Second Quarter 2003. Additional dissolved metals were added to the sampling and analysis program beginning with the Second Quarter 2006.

Currently, the sampling and analysis schedule (Tables 1A and 1B) for the Battery Howe/Wagner wells includes annual monitoring of VOCs and quarterly monitoring of dissolved metals and general chemistry parameters. Oxygen-reduction potential (ORP), pH and temperature are also being measured in the field as part of the low-flow sampling technique. Current and historical analytical results are presented in Tables A-4-1 and A-4-3.

2.0 SITE DESCRIPTION AND GEOLOGY

Battery Howe/Wagner is in the Marina Groundwater Basin (Montgomery Watson, 1996c). Depth to groundwater ranges from approximately 11 to 30 feet bgs. Groundwater flow is generally toward the northeast, but has been reported as both to the east and north (Dames and Moore, 1997).

Artificial and debris fill material lie beneath the Battery Howe/Wagner site at depths ranging from approximately 2.5 to 25 feet bgs. The artificial fill material consists of poorly sorted clay, silt, sand, and gravel, with various types of rock. The debris fill consists mainly of clay and silt with varying amounts of building materials, including glass, wood, brick, concrete, metal strips, and wire. Colma Formation sediments are present below the fill materials and consist of two distinct units: a silty clay colluvium ranging from 0 to 16 feet thick, and a dune sand ranging up to 7 feet thick. Franciscan Formation bedrock underlies the Colma Formation.

3.0 GROUNDWATER MONITORING

Battery Howe/Wagner has six associated monitoring wells (Figure A-4-1). During the First and Second Quarters 2007, groundwater elevation measurements were collected at all Battery Howe/Wagner monitoring wells, with HWGW102 being dry during both quarters. During the First and Second Quarters 2007, groundwater samples were collected from five of the Battery Howe/Wagner monitoring wells (BHWGW01, BHWGW04, BHWGW05, HWGW100 and HWGW101) and analyzed for dissolved metals and general chemistry parameters. In addition, samples were collected and analyzed for VOCs during the First Quarter 2007.

3.1 Groundwater-Level Measurements and Interpretation

Groundwater elevation measurements were collected on 26 February and 4 June 2007 at site wells except for HWGW102 which was dry. Groundwater elevations are summarized in Table A-4-4.

The groundwater elevations measured at the Battery Howe/Wagner site are generally within the range of historical elevations. Water-level meters were calibrated on 26 February and 4 June 2007. The calibration logs can be found in Appendix B. Groundwater elevation field forms can be found in Appendix C.

During the First Quarter 2007 groundwater elevations ranged from 159.26 to 187.54 feet above PLLW in monitoring wells BHWGW01 and HWGW101, respectively. Groundwater flow was in a northeasterly direction during the First Quarter 2007, which follows the general topographic trend (Figure A-4-1).

During the Second Quarter 2007, groundwater elevations ranged from 157.29 to 187.78 feet above PLLW in monitoring wells BHWGW01 and HWGW101, respectively. Groundwater flow was in a northeasterly direction during the Second Quarter 2007, which follows the general topographic trend (Figure A-4-2).

The First and Second Quarter 2007 groundwater gradients were estimated to be approximately 0.06 and 0.07 feet per foot, respectively. Monitoring well HWGW102 was not used in the groundwater contouring or gradient calculation during either the First and Second Quarters 2007 because it was dry. Groundwater gradients and flow directions are consistent with previous findings at the site.

3.2 Monitoring Well Purging and Sampling

During the First and Second Quarters 2007, five of the six Battery Howe/Wagner site monitoring wells (BHWGW01, BHWGW04, BHWGW05, HWGW100, and HWGW101) were purged and sampled on 6 March and 6 and 7 June 2007, respectively. The remaining well (HWGW102) was dry during both the First and Second Quarters 2007 and was not sampled. All Battery Howe/Wagner monitoring wells containing water were sampled using methods shown in Tables 1A and 1B, and in accordance with procedures described in the FSP (Treadwell & Rollo, 2001a).

Purge equipment, purging volumes, purge water general water chemistry parameters, and sampling equipment for each monitoring well are described in the purge records located at the conclusion of this section. Purge water was stored for future disposal in one of two 2,800-gallon aboveground polyethylene storage tanks, which are located at the Central Magazine.

3.3 Groundwater Analytical Program

All groundwater samples collected were submitted to the project laboratory for the analyses shown in Tables 1A and 1B of the main text. The appropriate sampling containers, preservatives, and maximum holding times for each analytical method are shown in Table 5. Sample containers collected from each well are described in the purge records located at the conclusion of this section.

Quality assurance and quality control (QA/QC) samples were collected as part of this program. Section 6.2 of the main report discusses the QA/QC sampling and analysis performed for the First and Second Quarters 2007.

4.0 GROUNDWATER ANALYTICAL RESULTS

4.1 Dissolved Oxygen

Dissolved oxygen measurements taken during the First and Second Quarters 2007 at Battery Howe/Wagner wells were within historical ranges (Table A-4-1).

4.2 General Chemistry Results

The table below summarizes new high and low general chemistry analytical results for the First and Second Quarters 2007 when compared to historical data, and provides the range and frequency of historical results (Table A-4-1). The total number of analyses may vary depending on the sampling frequency, the commencement date of sampling, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2007		Units
			Minimum	Maximum	Minimum	Maximum	
General Chemistry							
BHWGW04	N as Nitrate	19/19	4.56	5.7	4.5	--	mg/L
HWGW100	Chloride	14/14	23	590	--	960	mg/L
	N as Nitrate	13/13	0.11	1.3	0.1	--	mg/L
	Sulfate	14/14	65	300	--	1,100	mg/L
HWGW101	Chloride	18/18	48	280	46	--	mg/L

Significant new high and low general chemistry results are discussed below.

- Chloride was detected at a new high concentration of 960 mg/L during the Second Quarter 2007 within monitoring well HWGW100. This detection was almost twice the previous high concentration for this well and it also exceeds the cleanup level for chloride (250 mg/L), listed in the Cleanup Level Document (EKI, 2002; Revised 2006).

- Sulfate was detected at a new high concentration of 1,100 mg/L during the Second Quarter 2007 within monitoring well HWGW100. This detection was almost four times the previous high concentration for this well.

The remaining general chemistry concentrations were either within historical ranges or slightly above or below previous concentrations and do not appear to be significant. General chemistry concentrations will continue to be monitored during future quarterly sampling events. ORP, pH, and temperature measurements were collected during low flow sampling beginning in the First Quarter 2006. First and Second Quarter 2007 general chemistry results are summarized in Table A-4-1.

4.3 Dissolved Metals Results

Groundwater samples collected from the five Battery Howe/Wagner monitoring wells were analyzed for 22 dissolved metals during the First and Second Quarters 2007. The current and historical dissolved metals results are shown on Table A-4-2.

The table below summarizes new high and low dissolved metals analytical results for the First and Second Quarters 2007 when compared to historical data, and provides the range and frequency of historical results (Table A-4-2). The total number of analyses may vary depending on the sampling frequency, the commencement date of sampling, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2007		Units
			Minimum	Maximum	Minimum	Maximum	
Metals							
BHWGW04	Antimony	1/15	<1	<60	--	2.2	ug/L
	Copper	3/16	<1	<10	--	16	ug/L
	Vanadium	2/15	<10	<10	--	11	ug/L
BHWGW05	Barium	14/14	18	90	--	92	ug/L
	Calcium	14/14	35,000	70,000	--	77,000	ug/L
	Magnesium	14/14	69,000	80,000	--	89,000	ug/L
	Manganese	14/14	80	560	--	780	ug/L
	Nickel	13/13	17	34.1	--	42	ug/L
	Sodium	13/13	220,000	270,000	200,000	--	ug/L
HWGW100	Arsenic	4/5	5.7	7.8	5	--	ug/L
	Barium	3/5	<10	12	--	27	ug/L
	Calcium	4/5	<500	30,000	--	36,000	ug/L
	Chromium	9/9	13	49	11	--	ug/L
	Magnesium	5/5	49,000	140,000	--	170,000	ug/L
	Manganese	4/5	<10	60	--	86	ug/L
	Sodium	5/5	220,000	290,000	--	340,000	ug/L
	Vanadium	1/5	<10	<10	--	11	ug/L
HWGW101	Magnesium	5/5	25,000	26,000	23,000	28,000	ug/L
	Potassium	5/5	780	1,600	660	--	ug/L
	Sodium	5/5	210,000	260,000	200,000	--	ug/L
	Vanadium	1/5	<10	<10	--	11	ug/L

Significant dissolved metal results are discussed below.

- Antimony was detected for the first time at a concentration of 2.2 µg/L during First Quarter 2007 within monitoring well BHWGW04. This detection was the first time antimony has been detected within any Battery Howe-Wagner monitoring wells.

- Barium was detected at a new high concentration of 27 µg/L during Second Quarter 2007 within monitoring well HWGW100. This detection was more than twice the previous high concentration for this well.

- Chromium was detected in wells BHWGW01, HWGW100, and HWGW101. During the First Quarter 2007, dissolved chromium was detected at concentrations of 21, 15, and 110 µg/L within monitoring wells HWGW101, HWGW100, and BHWGW01, respectively. During the Second Quarter 2007, dissolved chromium was detected at concentrations of 20, 11, and 100 µg/L within monitoring wells HWGW101, HWGW100, and BHWGW01 (primary sample), respectively. The detected concentrations within BHWGW01 exceed the cleanup level (50 µg/L) listed in the Cleanup Level Document.

- Copper was detected at a new high concentration of 16 µg/L during the First Quarter 2007 within the duplicate sample from monitoring well BHWGW04. This detection is over five times the previous high concentration for this well.

- Vanadium was detected at a new high concentration of 11 µg/L during the First Quarter 2007 within monitoring wells BHWGW04, HWGW100, and HWGW101. Vanadium had not previously been detected within any Battery Howe/Wagner monitoring wells. The vanadium detections may be anomalous and therefore, vanadium will continue to be monitored within these monitoring wells during future quarters to determine if these results are persistent.

Remaining dissolved metals results for the First and Second Quarters 2007 at Battery Howe/Wagner wells were near or within historical ranges and are not considered significant.

4.4 VOC Results

During the First Quarter 2007, samples were collected from the five Battery Howe/Wagner monitoring wells and analyzed for VOCs. No samples were analyzed for VOCs during the Second Quarter 2007.

Monitoring wells BHWGW01 and HWGW100 were the only wells with detected concentrations of VOCs. Monitoring well BHWGW01 had concentrations of carbon tetrachloride (1 µg/L) and chloroform (0.7 µg/L) detected within historical ranges. 1,1-DCE was detected during the First Quarter 2007 within monitoring well HWGW100 at a new low concentration of 1.2 µg/L (Table A-4-3). The detected concentration is only slightly lower than the previous low concentration. No other VOCs were detected within the Battery Howe-Wagner monitoring wells during this quarter.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Groundwater elevations, gradients, and flow directions during First and Second Quarters 2007 are consistent with historical values and interpretations. The five Battery Howe/Wagner monitoring wells were sampled and analyzed during the First and Second Quarter 2007 without any significant findings.

The majority of general chemistry and dissolved metals results were within the range of previously detected concentrations for Battery Howe/Wagner monitoring wells and are not considered significant. Chloride and chromium were the only analytes detected above their cleanup levels during the First and Second Quarters 2007. Chloride was detected above its cleanup level in HWGW100 during the Second Quarter 2007 and chromium was detected above its cleanup level during both the First and the Second Quarters 2007 above its cleanup level. Chromium has exceeded its cleanup level within BHWGW01 since 1992.

Antimony and vanadium were detected for the first time in Battery Howe/Wagner monitoring wells during the First Quarter 2007. Analysis for dissolved metals will continue to determine if trends develop. Only

The VOCs results for the First Quarter 2007 are similar to historical trends with low levels of carbon, tetrachloride and chloroform detected in monitoring well BHWGW01 and a new low of concentration 1,1-DCE detected in monitoring well HWGW100.

Table A-4-1
Results of General Chemistry Analyses
Battery Howe/Wagner
Presidio of San Francisco, California

Well Name	Sample Date	Total Alkalinity	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	Total Dissolved Solids	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ SW9056	E300.0/ SW9056	E300.0/ SW9056	E353.2	E300.0/ SW9056	E160.1	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
Cleanup Level [2]		--	--	**250**	--	--	--	--	--	--	--	--	--	--
BHWGW01	06/06/07	540	540	230	0.47	0.12	5.7 J+	< 0.05	NA	67	NA	95	7.36	18
DUP0606073B	06/06/07	540	540	230	--	0.12	5.7 J+	< 0.05	NA	70	NA	--	--	--
BHWGW01CL	06/06/07	505	505	220	--	< 0.2	6	< 0.5 i	NA	61	NA	--	--	--
	03/06/07	550	550	230	0.4	0.1	5.7	< 0.05	NA	68	NA	165	7.3	17.9
	12/07/06	530	530	200	0.87	< 0.1	5.9	< 0.05	NA	65	NA	54.3	7.8	16.58
	08/15/06	530	530	200	0.52	< 0.1	5.9	< 0.05	NA	68	NA	75.1	7.71	17.25
DUP0815062A	08/15/06	530	530	200	--	< 0.1	5.7	< 0.05	NA	66	NA	--	--	--
	05/25/06	520	520	200	0.92	< 0.1	5.6	< 0.05	NA	67	NA	158.6	7.8	17.42
DUP0525063A	05/25/06	530	530	200	NA	< 0.1	5.3	< 0.05	NA	66	NA	--	--	--
BHWGW01CL	05/25/06	512	NA	220	NA	< 1 U	6.49	< 0.02 U	NA	68	NA	--	--	--
	03/16/06	520	520	210	0.84	0.11	5.2	< 0.05	NA	66	NA	28.1	7.76	16.55
	03/15/05	560	560	240	0.5	0.1	5.5	< 0.05	NA	65	NA	--	--	--
	03/18/04	480	480	**260**	0.5	< 0.1	5.8	< 0.05	NA	69	NA	--	--	--
DUP0318041A	03/18/04	480	480	**260**	--	< 0.1	5.9	< 0.05	NA	68	NA	--	--	--
	12/04/03	520	520	240	0.5	< 0.1	5.5	< 0.05	NA	65	NA	--	--	--
	08/21/03	530	530	210	0.65	< 0.1	5.5	< 0.05	NA	63	NA	--	--	--
	06/10/03	500	500	240	0.62	< 0.1	6.5	< 0.05	NA	71	NA	--	--	--
	03/12/03	580	580	240	0.46	0.12	6.6	< 0.05	NA	61	NA	--	--	--
	12/09/02	500	500	250	0.84	0.12	6.3	< 0.05	NA	68	NA	--	--	--
	08/28/02	430	430	230	0.54	0.16	6.5	< 0.05	NA	74	NA	--	--	--
	06/05/02	520	520	250	0.49	0.15	6.9	< 0.05	NA	67	NA	--	--	--
DUP0605023A	06/05/02	520	520	250	--	0.14	7.4	< 0.05	NA	70	NA	--	--	--
	03/06/02	460	460	**280**	4.4	0.18	6.9	< 0.05	NA	72	NA	--	--	--
DUP0306023A	03/06/02	460	460	**280**	--	0.18	6.9	< 0.05	NA	72	NA	--	--	--
BHWGW01CL	03/06/02	430	430	**270**	--	< 1	7.2 [3]	< 1	NA	75	NA	--	--	--
	11/28/01	480	480	**310**	1.6	0.14	6.7	< 0.05	NA	73	NA	--	--	--
DUP1128012A	11/28/01	480	480	**300**	--	0.14	6 J	< 0.05	NA	67	NA	--	--	--
BHWGW01CL	11/28/01	470	470	130	--	< 1	6.3 [3]	< 1	NA	49	NA	--	--	--
	08/30/01	480	480	**290**	2.5	0.16	6.9	< 0.05	NA	73	NA	--	--	--
DUP0830011A	08/30/01	480	480	**290**	--	0.2	6.3	< 0.05	NA	76	NA	--	--	--
	05/10/01	520	520	**290**	3.2	0.18	6.6	< 0.05	NA	69	NA	--	--	--
	11/19/98	NA	NA	NA	3.3	NA	NA	NA	NA	NA	1,070	--	--	--
	01/12/98	499	499	**297**	1.8	NA	6.4	NA	NA	61	1,130	--	--	--
	02/11/97	NA	NA	NA	0.6	NA	NA	NA	NA	NA	NA	--	--	--
	11/07/94	647	647	**289**	NM	NA	11.1	NA	NA	88.7	1,020	--	--	--
	08/25/92	560	534	250	NM	NA	NA	NA	6.3	65	1,120	--	--	--

Table A-4-1
Results of General Chemistry Analyses
Battery Howe/Wagner
Presidio of San Francisco, California

Well Name	Sample Date	Total Alkalinity	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	Total Dissolved Solids	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ SW9056	E300.0/ SW9056	E300.0/ SW9056	E353.2	E300.0/ SW9056	E160.1	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
Cleanup Level [2]		--	--	**250**	--	--	--	--	--	--	--	--	--	--
BHWGW04	06/06/07	310	310	94	1.52	< 0.1	5.1 J+	< 0.05	NA	61	NA	162.5	7.07	17.10
	03/06/07	330	330	89	1.20	< 0.1	4.5	< 0.05	NA	60	NA	164.0	6.90	17.00
DUP0306073A	03/06/07	320	320	90	--	< 0.1	4.5	< 0.05	NA	60	NA	--	--	--
	12/07/06	310	310	85	0.70	< 0.1	4.7	< 0.05	NA	59	NA	158.1	7.3	16.11
DUP1207062A	12/07/06	310	310	85	--	< 0.1	4.7	< 0.05	NA	59	NA	--	--	--
	08/15/06	310	310	87	0.97	< 0.1	4.7	< 0.05	NA	59	NA	134.3	7.24	17.38
	05/25/06	310	310	89	1.06	< 0.1	4.6	< 0.05	NA	62	NA	129.2	7.17	16.4
	03/15/06	210	210	89	0.9	< 0.1	4.9	< 0.05	NA	62	NA	-47.3	7.39	16.66
	03/15/05	310	310	89	0.7	< 0.1	5.1	< 0.05	NA	57	NA	--	--	--
	03/18/04	310	310	95	0.8	< 0.1	5.1	< 0.05	NA	60	NA	--	--	--
	03/12/03	320	320	90	1.33	< 0.1	4.9	< 0.05	NA	58	NA	--	--	--
	12/05/02	330	330	87	1.63	< 0.1	5.1	< 0.05	NA	54	NA	--	--	--
	08/28/02	290	290	87	0.9	0.11	5	< 0.05	NA	62	NA	--	--	--
	06/04/02	310	310	98	1.01	0.27	5	< 0.05	NA	64	NA	--	--	--
	03/06/02	310	310	100	1.0	0.22	5.2	< 0.05	NA	68	NA	--	--	--
	11/28/01	320	320	98	1.2	0.21	5.7	< 0.05	NA	56	NA	--	--	--
	08/30/01	300	300	110	2.2	0.21	4.9	< 0.05	NA	66	NA	--	--	--
	05/10/01	330	330	94	5.0	0.18	4.9	<0.05	NA	60	NA	--	--	--
	01/13/98	316	316	86	1.3	NA	4.6	NA	NA	57	644	--	--	--
	02/11/97	NA	NA	NA	1.7	NA	NA	NA	NA	NA	NA	--	--	--
BHWGW05	06/06/07	750	750	110	0.49	0.11	< 0.05	< 0.05	NA	110	NA	27.50	6.90	17.50
	03/06/07	720	720	110	0.50	0.1	< 0.05	< 0.05	NA	120	NA	178.00	6.80	17.00
	12/07/06	730	730	100	0.68	0.12	< 0.05	< 0.05	NA	110	NA	91.2	7.2	16
	08/15/06	620	620	100	0.52	< 0.1	0.05	< 0.05	NA	84	NA	-82.90	7.08	17.36
	05/25/06	740	740	100	0.77	0.12	< 0.05	< 0.05	NA	84	NA	136.7	7.09	16.79
	03/16/06	790	790	100	0.78	0.13	< 0.05	< 0.05	NA	87	NA	130.1	6.96	16.98
	03/15/05	1,700	1,700	99	0.3	0.13	< 0.05	< 0.05	NA	53	NA	--	--	--
	03/18/04	730	730	100	0.7	0.14	< 0.05	< 0.05	NA	78	NA	--	--	--
	03/12/03	640	640	97	0.83	0.23	0.15	< 0.05	NA	93	NA	--	--	--
	12/09/02	620	620	96	0.22	0.11	< 0.05	< 0.05	NA	120	NA	--	--	--
	08/28/02	560	560	95	0.34	0.17	0.07	< 0.05	NA	95	NA	--	--	--
DUP0828021A	08/28/02	590	590	97	--	0.18	< 0.05	< 0.05	NA	100	NA	--	--	--
	06/05/02	660	660	110	0.75	0.25	0.08	< 0.05	NA	59	NA	--	--	--
	03/06/02	650	650	100	0.6	0.22	0.03 J	< 0.05	NA	34	NA	--	--	--
	11/28/01	640	640	110	1.3	0.24	< 0.05	< 0.05	NA	29	NA	--	--	--
	08/30/01	680	680	110	1.8	0.2	< 0.05	< 0.05	NA	31	NA	--	--	--
	05/10/01	720	720	100	6.1	0.2	0.22	< 0.05	NA	34	NA	--	--	--
	01/13/98	795	795	95	2.4	NA	< 0.5	NA	NA	36	1,070	--	--	--
	02/11/97	NA	NA	NA	2.6	NA	NA	NA	NA	NA	NA	--	--	--

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Battery Howe/Wagner
Presidio of San Francisco, California

Well Name	Sample Date	Total Alkalinity	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	Total Dissolved Solids	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ SW9056	E300.0/ SW9056	E300.0/ SW9056	E353.2	E300.0/ SW9056	E160.1	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
Cleanup Level [2]		--	--	**250**	--	--	--	--	--	--	--	--	--	--
HWGW100	06/07/07	980	980	**960**	1.15	< 0.2	0.17 J	< 0.1 UJ	NA	1,100	NA	153.30	7.07	19.00
	03/06/07	910	910	170	1.10	< 0.1	0.1 U	< 0.05	NA	220	NA	170.00	7.10	18.00
	12/07/06	900	900	140	1.19	< 0.1	0.11	< 0.05	NA	180	NA	83.3	7.6	15.25
	08/15/06	680	680	38	1.06	< 0.1	0.51	< 0.05	NA	73	NA	83.40	7.49	16.92
	05/25/06	590	590	23	2.39	< 0.1	1.3	< 0.05	NA	65	NA	150.1	7.58	17.59
	03/15/06	700	700	37	0.52	0.11	0.71	< 0.05	NA	90	NA	-70.4	8.5	18.19
	03/15/05	1,200	1,200	57	0.2	< 0.1	0.33	< 0.05	NA	100	NA	--	--	--
	03/18/04	790	790	45	0.4	0.13	0.53	< 0.05	NA	110	NA	--	--	--
	08/21/03	NA	NA	NA	0.6	NA	NA	NA	NA	NA	NA	--	--	--
	06/10/03	770	770	46	1.42	< 0.1	0.5	< 0.05	NA	120	NA	--	--	--
	03/12/03	810	810	52	0.66	< 0.1	0.72	< 0.05	NA	120	NA	--	--	--
	06/04/02	820	820	54	1.21	0.32	0.56	< 0.05	NA	120	NA	--	--	--
	03/06/02	890	890	96	2.6	0.28	0.9	< 0.05	NA	130	NA	--	--	--
	05/10/01	880	880	130	5.3	0.27	0.51	< 0.05	NA	120	NA	--	--	--
	07/25/00	730	730	**590**	NM	NA	NA	NA	NA	300	2,040	--	--	--
HWGW101	06/06/07	500	500	46	1.92	< 0.1	1.7	< 0.05	NA	74	NA	138.80	7.00	18.50
	03/06/07	440	440	69	2.20	< 0.1	1.6	< 0.05	NA	75	NA	177.00	6.90	16.80
	12/07/06	410	410	55	2.35	< 0.1	1.5	< 0.05	NA	60	NA	105.9	7.6	15.08
	08/15/06	450	450	57	2.11	0.1	1.5	< 0.05	NA	81	NA	129.30	7.44	16.87
	05/25/06	520	520	54	1.87	0.12	1.5	< 0.05	NA	100	NA	138.7	7.55	19.1
	03/15/06	510	510	52	1.78	0.1	1.5	< 0.05	NA	84	NA	-62.5	7.65	17.42
	03/15/05	530	530	58	0.9	< 0.1	1.9	< 0.05	NA	88	NA	--	--	--
	03/18/04	530	530	50	1	0.1	1.9	< 0.05	NA	100	NA	--	--	--
	08/21/03	640	640	48	1.33	0.1	1.7	< 0.05	NA	130	NA	--	--	--
	06/10/03	570	570	61	1.4	0.14	2.1	< 0.05	NA	140	NA	--	--	--
	03/12/03	550	550	90	1.47	0.15	2	< 0.05	NA	120	NA	--	--	--
	08/29/02	590	590	99	1.53	0.18	1.7	< 0.25	NA	150	NA	--	--	--
	06/04/02	460	460	100	1.31	0.28	1.8	< 0.05	NA	190	NA	--	--	--

Table A-4-1
Results of General Chemistry Analyses
Battery Howe/Wagner
Presidio of San Francisco, California

Well Name	Sample Date	Total Alkalinity	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	Total Dissolved Solids	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ SW9056	E300.0/ SW9056	E300.0/ SW9056	E353.2	E300.0/ SW9056	E160.1	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
Cleanup Level [2]		--	--	**250**	--	--	--	--	--	--	--	--	--	--
HWGW101	03/06/02	500	500	130	3.6	0.23	2.2	< 0.05	NA	120	NA	--	--	--
	11/28/01	520	520	150	3.2	0.27	2.1	< 0.05	NA	110	NA	--	--	--
	08/30/01	540	540	150	2.2	0.26	1.8	< 0.05	NA	140	NA	--	--	--
	05/10/01	590	590	130	4	0.23	1.9	< 0.05	NA	160	NA	--	--	--
	07/25/00	530	530	**280**	NM	NA	NA	NA	NA	160	1,200	--	--	--

Notes

1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.

2 - Cleanup levels taken from Table 7-6 in the *Development of Presidio-wide Cleanup Levels for Soil, Sediment, Groundwater, and Surface Water* (EKI, 2002; Table 7-6 Revised May 2006).

3 - The QC laboratory nitrate results shown have been converted to nitrate as nitrogen (nitrate-N) as other laboratory results are reported. The QC laboratory reported nitrate as NO_3 concentrations (nitrate-NO_3) which are 4.43 times higher than nitrate-N concentrations.

mg/L - milligrams per liter

NA - not analyzed

NM - not measured

CL suffix denotes a quality control duplicate sample was sent to the control laboratory.

"--" dissolved oxygen measurements were not taken for duplicate and quality control samples.

Table 7 in the main report identifies all duplicate and split samples and associate them with the well from which they were collected.

Table 11 in the main report identifies current and historical data qualifiers.

mV - millivolts

Cº - degrees centigrade

Table A-4-2
Results of Dissolved Metals Analyses
Battery Howe/Wagner
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Hexavalent Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
	Analytical Method[1]	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW7196A	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Level[2]		--	**6**	**10**	**1,000**	**4**	**5**	--	**50**	--	--	**1,000**	--	**15**	--	--	**100**	--	**50**	**50**	--	**2**	--	**5,000**
BHWGW01	06/06/07	< 100	< 1	< 5	46	< 2	< 1	17,000	**100**	NA	< 10	< 1	< 100	< 3	77,000	< 10	< 20	< 500	< 5	< 1	220,000	< 1	< 10	< 20
DUP0606073B	06/06/07	< 100	< 1	< 5	45	< 2	< 1	18,000	**110**	NA	< 10	< 1	< 100	< 3	81,000	< 10	< 20	< 500	< 5	< 1	220,000	< 1	< 10	< 20
BHWGW01CL	06/06/07	< 50	< 0.05	1.6	49.8	< 0.02	0.03	17,900	**116**	NA	0.13	0.5	< 20	0.14	87,900	< 5	3.7	< 2,000	< 5	< 0.02	244,000	< 0.02	< 10	< 10
	03/06/07	< 100	< 1	< 5	50	< 2	< 1	18,000	**110**	NA	< 10	< 1	< 100	< 3	90,000	< 10	< 20	< 500	< 5	< 1	230,000	< 1	< 10	< 20
	12/07/06	< 100	< 1	< 5	48	< 2	< 1	18,000	**120**	NA	< 10	< 1	< 100	< 3	86,000	< 10	< 20	< 500	< 5	< 1	230,000 J	< 1	< 10	25
	08/15/06	< 100	< 1	< 5	46	< 2	< 1	18,000	**120**	NA	< 10	< 1	< 100	< 3	84,000	< 10	< 20	< 500	< 5	< 1	250,000	< 1	< 10	< 20
DUP0815062A	08/15/06	< 100	< 1	< 5	47	< 2	< 1	18,000	**110**	NA	< 10	< 1	< 100	< 3	82,000	< 10	< 20	< 500	< 5	< 1	240,000	< 1	< 10	< 20
	05/25/06	< 100 UJ	< 1	< 5	46	< 2	< 1	< 500 U	**110**	NA	< 10	< 1	< 100	< 3	75,000	< 10	< 20	< 500	< 5	< 1	230,000	< 1	< 10	< 20
DUP0525063A	05/25/06	< 100 UJ	< 1	< 5	49	< 2	< 1	< 500 U	**120**	NA	< 10	< 1	< 100	< 3	79,000	< 10	< 20	< 500	< 5	< 1	240,000	< 1	< 10	< 20
BHWGW01CL	05/25/06	< 100 U	< 2 U	< 2 U	53	< 1 U	< 1 U	19,600	**128**	NA	< 1 U	2.3	< 100 U	< 1 U	88,300	< 10 U	3.5	< 5,000 U	< 2 U	< 1 U	241,000	< 1 U	< 10 U	< 20 U
	03/16/06	< 100 UJ	NA	NA	NA	NA	NA	NA	**110**	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/15/05	< 100	NA	NA	NA	NA	NA	NA	**110**	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/18/04	< 100	NA	NA	NA	NA	NA	NA	**110**	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DUP0318041A	03/18/04	< 100	NA	NA	NA	NA	NA	NA	**110**	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/04/03	< 100	NA	NA	NA	NA	NA	NA	**120**	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/21/03	< 100	NA	NA	NA	NA	NA	NA	**110**	NA	NA	NA	120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/10/03	< 100	NA	NA	NA	NA	NA	NA	**120**	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/12/03	NA	NA	NA	NA	NA	NA	NA	NA	120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/09/02	NA	NA	NA	NA	NA	NA	NA	NA	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/28/02	NA	NA	NA	NA	NA	NA	NA	NA	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/05/02	NA	NA	NA	NA	NA	NA	NA	NA	120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DUP0605023A	06/05/02	NA	NA	NA	NA	NA	NA	NA	NA	120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/06/02	NA	NA	NA	NA	NA	NA	NA	NA	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DUP0306023A	03/06/02	NA	NA	NA	NA	NA	NA	NA	NA	120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BHWGW01CL	03/06/02	NA	NA	NA	NA	NA	NA	NA	NA	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/28/01	NA	NA	NA	NA	NA	NA	NA	NA	140	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DUP1128012A	11/28/01	NA	NA	NA	NA	NA	NA	NA	NA	140	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BHWGW01CL	11/28/01	NA	NA	NA	NA	NA	NA	NA	NA	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/30/01	NA	NA	NA	NA	NA	NA	NA	NA	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DUP0830011A	08/30/01	NA	NA	NA	NA	NA	NA	NA	NA	110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/10/01	NA	NA	NA	NA	NA	NA	NA	NA	120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/19/98	< 100	< 5	< 5	53	< 4	< 2	20,200	**127**	NA	< 10	21	< 100	< 3	96,200	< 10	< 20	< 5,000	< 5	< 2	250,000	< 2	< 10	24
	01/12/98	< 100	< 5	< 5	56	< 4	< 2	20,700	**146**	NA	< 10	< 10	< 100	< 3	98,200	< 10	< 20	< 5,000	< 5	< 2	261,000	< 2	< 10	< 20
	02/11/97	< 100	< 5	< 5	50	< 4	< 2	20,000	**120**	NA	< 10	< 10	< 100	< 3	99,000	< 10	< 20	< 5,000	< 5	< 2	240,000	< 2	< 10	< 20
	12/02/96	< 100	< 5	< 5	50	< 4	< 2	20,000	**120**	NA	< 10	< 10	< 100	< 3	97,000	< 10	< 20	< 5,000	11	< 2	270,000	< 2	< 10	< 20
	08/27/96	< 100	< 5	< 5	50	< 2	< 0.5	20,000	**120**	NA	< 10	< 1	< 100	< 1	94,000	< 10	< 5	< 5,000	18	< 0.5	230,000	< 2	< 10	< 20
	05/28/96	< 100	< 5	< 5	50	< 2	< 0.5	20,000	**120**	NA	< 10	< 1	< 100	< 1	98,000	< 10	6	< 5,000	< 5	< 0.5	240,000	< 2	< 10	20
	03/12/96	< 100	< 5	< 5	57	< 2	< 0.5	21,300	**126**	NA	< 10	< 1	< 100	< 1	103,000	< 10	< 5	< 5,000	< 5	< 0.5	273,000	**4**	< 10	< 20
	12/20/95	1,700	< 5	7	81	< 2	< 0.5	24,000	**280**	NA	35	9	5,260	2	126,000	402	**534**	< 5,000	< 5	< 0.5	284,000	< 2	< 10	64
	09/28/95	< 200	< 60	< 5	34	< 2	< 2	17,000	**82**	NA	< 20	< 10	< 100	< 3	69,000	< 10	< 20	< 500	< 5	< 5	210,000	< 5	< 10	< 20
	01/11/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/05/94	NA	NA	NA	NA	NA	NA	NA	**150**	161	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/07/94	49	NA	NA	NA	NA	NA	NA	**118**	220	NA	NA	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/25/92	635	NA	NA	NA	NA	NA	NA	**144**	NA	NA	NA	1,920	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table A-4-2
Results of Dissolved Metals Analyses
Battery Howe/Wagner
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Hexavalent Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
	Analytical Method[1]	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW7196A	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Level[2]		--	**6**	**10**	**1,000**	**4**	**5**	--	**50**	--	--	**1,000**	--	**15**	--	--	**100**	--	**50**	**50**	--	**2**	--	**5,000**
BHWGW04	06/06/07	< 100	< 1	< 5	36	< 2	< 1	16,000	< 10	NA	< 10	< 1	< 100	< 3	40,000	< 10	< 20	< 500	< 5	< 1	120,000	< 1	< 10	< 20
	03/06/07	< 100	2.2	< 5	40	< 2	< 1	17,000	< 10	NA	< 10	2.5	< 100	< 3	46,000	< 10	< 20	< 500	< 5	< 1	120,000	< 1	11	< 20
DUP0306073A	03/06/07	< 100	< 1	< 5	41	< 2	< 1	17,000	< 10	NA	< 10	16	< 100	< 3	47,000	< 10	< 20	< 500	< 5	< 1	130,000	< 1	10	< 20
	12/07/06	< 100	< 1	< 5	40	< 2	< 1	17,000	< 10	NA	< 10	< 1	< 100	< 3	47,000	< 10	< 20	< 500	< 5	< 1	130,000 J	< 1	< 10	< 20
DUP1207062A	12/07/06	< 100	< 1	< 5	40	< 2	< 1	17,000	< 10	NA	< 10	< 1	< 100	< 3	47,000	< 10	< 20	< 500	< 5	< 1	130,000 J	< 1	< 10	< 20
	08/15/06	< 100	< 1	< 5	39	< 2	< 1	18,000	< 10	NA	< 10	< 1	< 100	< 3	44,000	< 10	< 20	< 500	< 5	< 1	130,000	< 1	< 10	< 20
	05/25/06	< 100 UJ	< 1	< 5	37	< 2	< 1	< 500 U	< 10	NA	< 10	< 1	< 100	< 3	39,000	< 10	< 20	< 500	< 5	< 1	140,000	< 1	< 10	< 20
	03/15/06	< 100	NA	NA	NA	NA	NA	NA	< 10	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/15/05	< 100	NA	NA	NA	NA	NA	NA	< 10	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/18/04	< 500	NA	NA	NA	NA	NA	NA	< 50	NA	NA	NA	< 500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/12/03	NA	NA	NA	NA	NA	NA	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/05/02	NA	NA	NA	NA	NA	NA	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/28/02	NA	NA	NA	NA	NA	NA	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/04/02	NA	NA	NA	NA	NA	NA	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/06/02	NA	NA	NA	NA	NA	NA	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/28/01	NA	NA	NA	NA	NA	NA	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/30/01	NA	NA	NA	NA	NA	NA	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/10/01	NA	NA	NA	NA	NA	NA	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/13/98	< 100	< 5	< 5	35	< 4	< 2	17,800	16	NA	< 10	< 10	< 100	< 3	51,900	< 10	< 20	< 5,000	< 5	< 2	122,000	< 2	< 10	< 20
	02/11/97	< 100	< 5	< 5	40	< 4	< 2	21,000	< 10	NA	< 10	< 10	< 100	< 3	56,000	< 10	< 20	< 5,000	< 5	< 2	150,000	< 2	< 10	< 20
	12/02/96	< 100	< 5	< 5	40	< 4	< 2	19,000	10	NA	< 10	< 10	< 100	< 3	54,000	< 10	< 20	< 5,000	9	< 2	120,000	< 2	< 10	< 20
	08/27/96	< 100	< 5	< 5	40	< 2	< 0.5	20,000	7	NA	< 10	< 1	< 100	< 1	56,000	< 10	< 5	< 5,000	8	< 0.5	110,000	< 2	< 10	< 20
	05/29/96	< 100	< 5	< 5	30	< 2	< 0.5	19,000	13	NA	< 10	< 1	< 100	1	53,000	< 10	5	< 5,000	< 5	< 0.5	130,000	< 2	< 10	< 20
	03/12/96	< 100	< 5	< 5	40	< 2	< 0.5	20,600	14	NA	< 10	< 1	< 100	1	58,800	< 10	6	< 5,000	< 5	< 0.5	135,000	< 2	< 10	< 20
	12/20/95	< 100	< 5	< 5	40	< 2	< 0.5	18,100	18	NA	< 10	3	< 100	< 1	55,400	< 10	< 5	< 5,000	< 5	< 0.5	125,000	< 2	< 10	< 20
	09/29/95	< 200	< 60	< 5	28	< 2	< 2	16,000	15	NA	< 20	< 10	< 100	< 3	51,000	< 10	< 20	< 500	< 5	< 5	110,000	< 5	< 10	< 20
	11/09/94	184 G	NA	NA	NA	NA	NA	NA	33	36.6	NA	NA	205	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/25/92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BHWGW05	06/06/07	< 100	< 1	< 5	89	< 2	< 1	71,000	< 10	NA	< 10	< 1	< 100	< 3	74,000	780	42	3,100	< 5	< 1	200,000	< 1	< 10	< 20
	03/06/07	< 100	< 1	< 5	92	< 2	< 1	77,000	< 10	NA	< 10	< 1	< 100	< 3	89,000	520	30	3,600	< 5	< 1	210,000	< 1	< 10	< 20
	12/07/06	< 100	< 1	< 5	77	< 2	< 1	65,000	< 10	NA	< 10	< 1	< 100	< 3	80,000	380	26	3,000	< 5	< 1	220,000 J	< 1	< 10	< 20
	08/15/06	< 100	< 1	< 5	85	< 2	< 1	70,000	< 10	NA	< 10	< 1	< 100	< 3	79,000	430	27	3,200	< 5	< 1	230,000	< 1	< 10	< 20
	05/25/06	< 100 UJ	< 1	< 5	90	< 2	< 1	68,000	< 10	NA	< 10	< 1	< 100	< 3	75,000	560	31	3,700	< 5	< 1	230,000	< 1	< 10	< 20
	03/16/06	< 100 UJ	NA	NA	NA	NA	NA	NA	< 10	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/15/05	< 100	NA	NA	NA	NA	NA	NA	< 10	NA	NA	NA	150	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/18/04	< 100	NA	NA	NA	NA	NA	NA	< 10	NA	NA	NA	140	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/12/03	NA	NA	NA	NA	NA	NA	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/09/02	NA	NA	NA	NA	NA	NA	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/28/02	NA	NA	NA	NA	NA	NA	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DUP0828021A	08/28/02	NA	NA	NA	NA	NA	NA	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/05/02	NA	NA	NA	NA	NA	NA	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/06/02	NA	NA	NA	NA	NA	NA	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/28/01	NA	NA	NA	NA	NA	NA	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/30/01	NA	NA	NA	NA	NA	NA	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/10/01	NA	NA	NA	NA	NA	NA	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/13/98	< 100	< 5	< 5	47	< 4	< 2	57,000	< 10	NA	< 10	< 10	100	< 3	71,900	461	34	5,020	< 5	< 2	230,000	< 2	< 10	< 20
	02/11/97	< 100	< 5	< 5	40	< 4	< 2	57,000	< 10	NA	< 10	< 10	< 100	< 3	76,000	150	20	< 5,000	8	< 2	230,000	< 2	< 10	< 20

Table A-4-2
Results of Dissolved Metals Analyses
Battery Howe/Wagner
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Hexavalent Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
	Analytical Method[1]	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW7196A	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Level[2]		**--**	**6**	**10**	**1,000**	**4**	**5**	**--**	**50**	**--**	**--**	**1,000**	**--**	**15**	**--**	**--**	**100**	**--**	**50**	**50**	**--**	**2**	**--**	**5,000**
BHWGW05	12/02/96	< 100	< 5	< 5	40	< 4	< 2	52,000	< 10	NA	< 10	< 10	< 100	< 3	69,000	140	20	< 5,000	12	< 2	230,000	< 2	< 10	< 20
	08/27/96	< 100	< 5	< 5	40	< 2	< 0.5	58,000	1	NA	< 10	1	< 100	< 1	70,000	160	23	6,000	21	< 0.5	230,000	< 2	< 10	< 20
	05/29/96	< 100	< 5	< 5	40	< 2	< 0.5	58,000	< 1	NA	< 10	1	< 100	< 1	75,000	210	21	< 5,000	< 5	< 0.5	250,000	< 2	< 10	< 20
	03/12/96	< 100	< 5	< 5	52	< 2	< 0.5	66,900	2	NA	< 10	2	< 100	1	74,900	80	17	12,000	< 5	< 0.5	270,000	**6**	< 10	< 20
	12/20/95	< 100	< 5	5	31	< 2	< 0.5	50,000	< 5	NA	< 10	4	< 100	< 1	74,400	180	21	7,730	< 5	< 0.5	266,000	< 2	< 10	28
	09/27/95	< 200	< 60	< 5	18	< 2	< 2	35,000	< 10	NA	< 20	< 10	< 100	< 3	74,000	250	22	5,300	< 5	< 5	220,000	< 5	< 10	< 20
	11/09/94	1,480	NA	NA	NA	NA	NA	NA	27	16.1	NA	NA	2,020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/25/92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HWGW100	06/07/07	< 100	< 1	< 5	27	< 2	< 1	35,000	11	NA	< 10	1.2	< 100	< 3	170,000	86	< 20	1,700	< 5	< 1	340,000	< 1	< 10	< 20
	03/06/07	< 100	< 1	5.1	< 10	< 2	< 1	36,000	15	NA	< 10	< 1	< 100	< 3	160,000	19	< 20	1,900	< 5	< 1	310,000	< 1	11	< 20
	12/07/06	< 100	< 1	5.7	12	< 2	< 1	30,000	13	NA	< 10	< 1	< 100	< 3	140,000	60	< 20	1,700	< 5	< 1	290,000 J	< 1	< 10	< 20
	08/15/06	< 100	< 1	6.1	12	< 2	< 1	24,000	20	NA	< 10	1.8	< 100	< 3	81,000	36	< 20	2,000	< 5	< 1	240,000	< 1	< 10	< 20
	05/25/06	< 100 UJ	< 1	7.8	< 10	< 2	< 1	< 500 U	24	NA	< 10	1.4	< 100	< 3	49,000	< 10	< 20	2,900	< 5	< 1	220,000	< 1	< 10	< 20
	03/15/06	< 100	NA	NA	NA	NA	NA	NA	32	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/15/05	< 100	NA	NA	NA	NA	NA	NA	33	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/18/04	< 100	NA	NA	NA	NA	NA	NA	49	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/10/03	< 100	NA	NA	NA	NA	NA	NA	46	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/12/03	NA	NA	NA	NA	NA	NA	NA	NA	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/04/02	NA	NA	NA	NA	NA	NA	NA	NA	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/06/02	NA	NA	NA	NA	NA	NA	NA	NA	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/10/01	NA	NA	NA	NA	NA	NA	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/25/00	NA	NA	NA	NA	NA	NA	NA	NA	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HWGW101	06/06/07	< 100	< 1	< 5	< 10	< 2	< 1	12,000	20	NA	< 10	< 1	< 100	< 3	23,000	< 10	< 20	660	< 5	< 1	200,000	< 1	< 10	< 20
	03/06/07	< 100	< 1	< 5	< 10	< 2	< 1	13,000	21	NA	< 10	< 1	< 100	< 3	28,000	< 10	< 20	830	< 5	< 1	210,000	< 1	11	< 20
	12/07/06	< 100	< 1	< 5	< 10	< 2	< 1	12,000	15	NA	< 10	< 1	< 100	< 3	25,000	< 10	< 20	780	< 5	< 1	210,000 J	< 1	< 10	< 20
	08/15/06	< 100	< 1	< 5	< 10	< 2	< 1	15,000	17	NA	< 10	< 1	< 100	< 3	25,000	< 10	< 20	900	< 5	< 1	230,000	< 1	< 10	< 20
	05/25/06	< 100 UJ	< 1	< 5	< 10	< 2	< 1	< 500 U	23	NA	< 10	< 1	< 100	< 3	26,000	< 10	< 20	1,600	< 5	< 1	260,000	< 1	< 10	< 20
	03/15/06	< 100	NA	NA	NA	NA	NA	NA	22	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/15/05	< 100	NA	NA	NA	NA	NA	NA	27	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/18/04	< 100	NA	NA	NA	NA	NA	NA	35	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/21/03	< 100	NA	NA	NA	NA	NA	NA	35	NA	NA	NA	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/10/03	< 100	NA	NA	NA	NA	NA	NA	35	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/12/03	NA	NA	NA	NA	NA	NA	NA	NA	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/29/02	NA	NA	NA	NA	NA	NA	NA	NA	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/04/02	NA	NA	NA	NA	NA	NA	NA	NA	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/06/02	NA	NA	NA	NA	NA	NA	NA	NA	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/28/01	NA	NA	NA	NA	NA	NA	NA	NA	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/30/01	NA	NA	NA	NA	NA	NA	NA	NA	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/10/01	NA	NA	NA	NA	NA	NA	NA	NA	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/25/00	NA	NA	NA	NA	NA	NA	NA	NA	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Cleanup levels taken from Table 7-6 in the *Development of Presidio-wide Cleanup Levels for Soil, Sediment, Groundwater, and Surface Water* (EKI, 2002; Table 7-6 Revised May 2006).
µg/L - micrograms per liter
NA - not analyzed
ND - not detected
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Groundwater samples collected from all site monitoring wells were field filtered and analyzed for dissolved metals.
Table 7 in the main report identifies all duplicate and split samples and associate them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-4-3
Results of VOC Analyses
Battery Howe/Wagner
Presidio of San Francisco, California

Well Name	Sample Date	Volatile Organic Compounds (VOCs)						
		1,1-DCE	**Benzene**	**Carbon Tetrachloride**	**Chloroform**	**MTBE**	**Toluene**	**All Other VOCs**
	Analytical Method[1]	SW8260B / SW8260M	SW8260B / SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Level[2]		**6.0**	**1**	**--**	**80**	**13**	**150**	**--**
BHWGW01	03/06/07	< 0.5	< 0.5	1	0.7	< 0.5	< 0.5	ND
	03/16/06	< 0.5	< 0.5	1.1	0.7	< 0.5	< 0.5	ND
	03/15/05	< 0.5	< 0.5	1.1	0.7	< 0.5	< 0.5	ND
	03/18/04	< 0.5	< 0.5	1.3	0.9	< 0.5	< 0.5	ND
DUP0318041A	03/18/04	< 0.5	< 0.5	1.3	0.9	< 0.5	< 0.5	ND
	12/04/03	< 0.5	< 0.5	1.3	0.8	< 0.5	< 0.5	ND
	08/21/03	< 0.5	< 0.5	1	0.7	< 0.5	< 0.5	ND
	06/10/03	< 0.5	< 0.5	2.2	0.8	< 0.5	< 0.5	ND
	03/12/03	< 0.5	< 0.5	1.3	< 0.5	< 0.5	< 0.5	ND
	12/09/02	< 0.5	< 0.5	1.1	0.7	< 0.5 UJ	< 0.5	ND
	08/28/02	< 0.5	< 0.5	1.1	0.7	< 0.5	< 0.5	ND
	06/05/02	< 0.5	< 0.5	1.4	0.7	< 0.5	< 0.5	ND
DUP0605023A	06/05/02	< 0.5	< 0.5	1.4	0.7	< 0.5	< 0.5	ND
	03/06/02	< 0.5	< 0.5	0.9	0.9	< 0.5	< 0.5	ND
DUP0306023A	03/06/02	< 0.5	< 0.5	0.8	0.8	< 0.5	< 0.5	ND
BHWGW01CL	03/06/02	< 0.5	< 0.5	1.6	< 1	< 5	< 0.5	ND
	11/28/01	< 0.5	< 0.5	1.1	0.8	< 0.5	< 0.5	ND
DUP1128012A	11/28/01	< 0.5	< 0.5	1.2	0.7	< 0.5	< 0.5	ND
BHWGW01CL	11/28/01	< 0.5	< 0.5	1.1	< 1	< 5	< 0.5	ND
	08/30/01	< 0.5	< 0.5	1.4	0.9	< 0.5	< 0.5	ND
DUP0830011A	08/30/01	< 0.5	< 0.5	1.3	0.9	< 0.5	< 0.5	ND
	05/10/01	< 0.5	< 0.5	1.4	1	< 0.5	< 0.5	ND
	11/19/98	< 0.5	< 0.5	1.1	0.77	NA	< 0.5	ND
	01/12/98	< 0.5	< 0.5	1.3	0.77	NA	< 0.5	ND
	02/11/97	< 0.5	< 0.5	1.1	0.7	NA	< 0.5	ND
	12/02/96	< 0.5	< 0.5	1.2	0.7	NA	< 0.5	ND
	08/27/96	< 0.5	< 0.5	0.8	0.6	NA	2.8	ND
	05/28/96	< 0.5	< 0.5	1.1	0.9	NA	< 0.5	ND
	03/12/96	< 0.5	< 0.5	0.8	0.5	NA	< 0.5	ND
	12/20/95	< 0.5	< 0.5	0.9	< 0.5	NA	< 0.5	ND
	09/28/95	< 0.5	< 0.5	1.1	< 0.5	NA	< 0.5	ND
	01/11/95	NA	NA	NA	0.68	NA	NA	ND
	12/05/94	NA	NA	NA	NA	NA	NA	NA
	11/07/94	NA	NA	NA	NA	NA	NA	NA
	08/25/92	NA	NA	0.87	NA	NA	NA	NA
BHWGW04	03/06/07	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0306073A	03/06/07	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/15/06	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/15/05	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/18/04	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/12/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/28/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/06/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/28/01	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/30/01	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND

Table A-4-3
Results of VOC Analyses
Battery Howe/Wagner
Presidio of San Francisco, California

Well Name	Sample Date	Volatile Organic Compounds (VOCs)						
		1,1-DCE	Benzene	Carbon Tetrachloride	Chloroform	MTBE	Toluene	All Other VOCs
	Analytical Method[1]	SW8260B / SW8260M	SW8260B / SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Level[2]		**6.0**	**1**	**--**	**80**	**13**	**150**	**--**
BHWGW04	05/10/01	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	01/13/98	NA	NA	NA	NA	NA	NA	NA
	02/11/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	12/02/96	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	08/27/96	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	05/29/96	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	03/12/96	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	12/20/95	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	09/29/95	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	11/09/94	NA	NA	NA	NA	NA	NA	NA
	08/25/92	NA	NA	< 0.07	NA	NA	NA	NA
BHWGW05	03/06/07	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/16/06	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/15/05	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/18/04	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/12/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/09/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	ND
	08/28/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0828021A	08/28/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/06/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/28/01	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/30/01	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/10/01	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	01/13/98	NA	NA	NA	NA	NA	NA	NA
	02/11/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	12/02/96	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	08/27/96	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	05/29/96	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	03/12/96	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	12/20/95	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	09/27/95	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	11/09/94	NA	NA	NA	NA	NA	NA	NA
	08/25/92	NA	NA	< 0.07	NA	NA	NA	NA
HWGW100	03/06/07	1.2 J+	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/15/06	3	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/15/05	2.3	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/18/04	2.9	0.1 J	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/10/03	2.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/12/03	2.4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/04/02	1.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/06/02	1.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/10/01	1.7	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	07/25/00	< 5	< 5	< 1	< 1	< 0.5	< 1	ND

Table A-4-3
Results of VOC Analyses
Battery Howe/Wagner
Presidio of San Francisco, California

Well Name	Sample Date	Volatile Organic Compounds (VOCs)						
		1,1-DCE	**Benzene**	**Carbon Tetrachloride**	**Chloroform**	**MTBE**	**Toluene**	**All Other VOCs**
	Analytical Method[1]	SW8260B / SW8260M	SW8260B / SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Level[2]		**6.0**	**1**	**--**	**80**	**13**	**150**	**--**
HWGW101	03/06/07	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/15/06	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/15/05	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/18/04	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/21/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/10/03	< 0.5	< 0.5	1.5	< 0.5	< 0.5	< 0.5	ND
	03/12/03	< 0.5	< 0.5	0.5	< 0.5	< 0.5	< 0.5	ND
	08/29/02	< 0.5	< 0.5	0.7	< 0.5	< 0.5	< 0.5	ND
	06/04/02	< 0.5	< 0.5	0.6	< 0.5	< 0.5	< 0.5	ND
	03/06/02	< 0.5	< 0.5	1.1	< 0.5	< 0.5	< 0.5	ND
	11/28/01	< 0.5	< 0.5	0.6	< 0.5	< 0.5	< 0.5	ND
	08/30/01	< 0.5	< 0.5	1	< 0.5	< 0.5	< 0.5	ND
	05/10/01	< 0.5	< 0.5	0.7	< 0.5	< 0.5	< 0.5	ND
	07/25/00	< 5	< 5	2.5	< 1	< 0.5	< 1	ND

Notes

1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.

2 - Cleanup levels taken from Table 7-6 in the *Development of Presidio-wide Cleanup Levels for Soil, Sediment, Groundwater, and Surface Water* (EKI, 2002; Table 7-6 Revised May 2006).

µg/L - micrograms per liter

NA - not analyzed

ND - not detected

VOC - volatile organic compound

1,1-DCE - 1,1-dichloroethene

MTBE - methyl tert-butyl ether

CL suffix denotes a quality control duplicate sample was sent to the control laboratory.

Groundwater samples collected from all site monitoring wells were field filtered and analyzed for dissolved metals.

Table 7 in the main report identifies all duplicate and split samples and associate them with the well from which they were collected.

Table 11 in the main report identifies current and historical data qualifiers.

Table A-4-4
Groundwater Elevation Summary
Battery Howe/Wagner
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
BHWGW01	06/04/07	20.75	178.04	157.29	MW
	02/26/07	18.78	178.04	159.26	MW
	12/04/06	20.55	178.04	157.49	MW
	08/14/06	19.90	178.04	158.14	MW
	05/22/06	17.39	178.04	160.65	MW
	03/06/06	15.19	178.04	162.85	MW
	11/28/05	21.69	178.04	156.35	MW
	08/29/05	20.40	178.04	157.64	MW
	05/23/05	17.32	178.04	160.72	MW
	03/14/05	16.18	178.04	161.86	MW
	12/13/04	20.65	178.04	157.39	MW
	08/09/04	22.18	178.04	155.86	MW
	05/24/04	20.91	178.04	157.13	MW
	03/08/04	17.15	178.04	160.89	MW
	12/01/03	23.10	178.04	154.94	MW
	08/11/03	21.46	178.04	156.58	MW
	06/02/03	19.39	178.04	158.65	MW
	03/10/03	19.06	178.04	158.98	MW
	12/02/02	22.90	178.04	155.14	MW
	08/26/02	21.85	178.04	156.19	MW
	05/28/02	19.95	178.04	158.09	MW
	03/04/02	17.71	178.04	160.33	MW
	11/26/01	22.75	178.04	155.29	MW
	08/27/01	23.15	178.04	154.89	MW
	05/08/01	20.63	178.04	157.41	MW
BHWGW04	06/04/07	13.28	197.73	184.45	MW
	02/26/07	12.00	197.73	185.73	MW
	12/04/06	14.21	197.73	183.52	MW
	08/14/06	13.69	197.73	184.04	MW
	05/22/06	10.99	197.73	186.74	MW
	03/06/06	12.88	197.73	184.85	MW
	11/28/05	14.14	197.73	183.59	MW
	08/29/05	23.37	197.73	174.36	MW
	05/23/05	13.54	197.73	184.19	MW
	03/14/05	13.64	197.73	184.09	MW
	12/13/04	14.97	197.73	182.76	MW
	08/09/04	16.04	197.73	181.69	MW
	05/24/04	15.77	197.73	181.96	MW
	03/08/04	15.45	197.73	182.28	MW
	12/01/03	18.08	197.73	179.65	MW
	08/11/03	15.72	197.73	182.01	MW
	06/02/03	15.57	197.73	182.16	MW
	03/10/03	16.30	197.73	181.43	MW
	12/02/02	18.14	197.73	179.59	MW
	08/26/02	16.35	197.73	181.38	MW
	05/28/02	14.15	197.73	183.58	MW
	03/04/02	12.55	197.73	185.18	MW
	11/26/01	17.33	197.73	180.40	MW
	08/27/01	16.95	197.73	180.78	MW
	05/08/01	14.43	197.73	183.30	MW

Table A-4-4
Groundwater Elevation Summary
Battery Howe/Wagner
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
BHWGW05	06/04/07	28.12	202.95	174.83	MW
	02/26/07	28.48	202.95	174.47	MW
	12/04/06	28.35	202.95	174.60	MW
	08/14/06	27.69	202.95	175.26	MW
	05/22/06	27.85	202.95	175.10	MW
	03/06/06	27.58	202.95	175.37	MW
	11/28/05	28.35	202.95	174.60	MW
	08/29/05	28.01	202.95	174.94	MW
	05/23/05	26.58	202.95	176.37	MW
	03/14/05	27.06	202.95	175.89	MW
	12/13/04	28.05	202.95	174.90	MW
	08/09/04	29.35	202.95	173.60	MW
	05/24/04	29.27	202.95	173.68	MW
	03/08/04	28.46	202.95	174.49	MW
	12/01/03	29.66	202.95	173.29	MW
	08/11/03	29.19	202.95	173.76	MW
	06/02/03	29.18	202.95	173.77	MW
	03/10/03	29.39	202.95	173.56	MW
	12/02/02	30.13	202.95	172.82	MW
	08/26/02	29.25	202.95	173.70	MW
	05/28/02	28.10	202.95	174.85	MW
	03/04/02	27.33	202.95	175.62	MW
	11/26/01	30.11	202.95	172.84	MW
	08/27/01	29.56	202.95	173.39	MW
	05/08/01	28.20	202.95	174.75	MW
HWGW100	06/04/07	27.05	209.68	182.63	MW
	02/26/07	27.11	209.68	182.57	MW
	12/04/06	27.30	209.68	182.38	MW
	08/16/06	23.15	209.68	186.53	MW
	05/22/06	19.71	209.68	189.97	MW
	03/06/06	22.83	209.68	186.85	MW
	11/28/05	27.92	209.68	181.76	MW
	08/29/05	24.24	209.68	185.44	MW
	05/23/05	20.75	209.68	188.93	MW
	03/14/05	23.68	209.68	186.00	MW
	12/13/04	29.63	209.68	180.05	MW
	08/09/04	28.15	209.68	181.53	MW
	05/24/04	26.37	209.68	183.31	MW
	03/08/04	25.90	209.68	183.78	MW
	12/01/03	Dry	209.68	178.68 [2]	MW
	08/11/03	28.13	209.68	181.55	MW
	06/02/03	27.32	209.68	182.36	MW
	03/10/03	26.78	209.68	182.90	MW
	12/02/02	Dry	209.68	178.68 [2]	MW
	08/26/02	28.19	209.68	181.49	MW
	05/28/02	26.00	209.68	183.68	MW
	03/04/02	26.40	209.68	183.28	MW
	11/26/01	Dry	209.68	178.68 [2]	MW
	08/27/01	Dry	209.68	178.68 [2]	MW
	05/08/01	28.81	209.68	180.87	MW

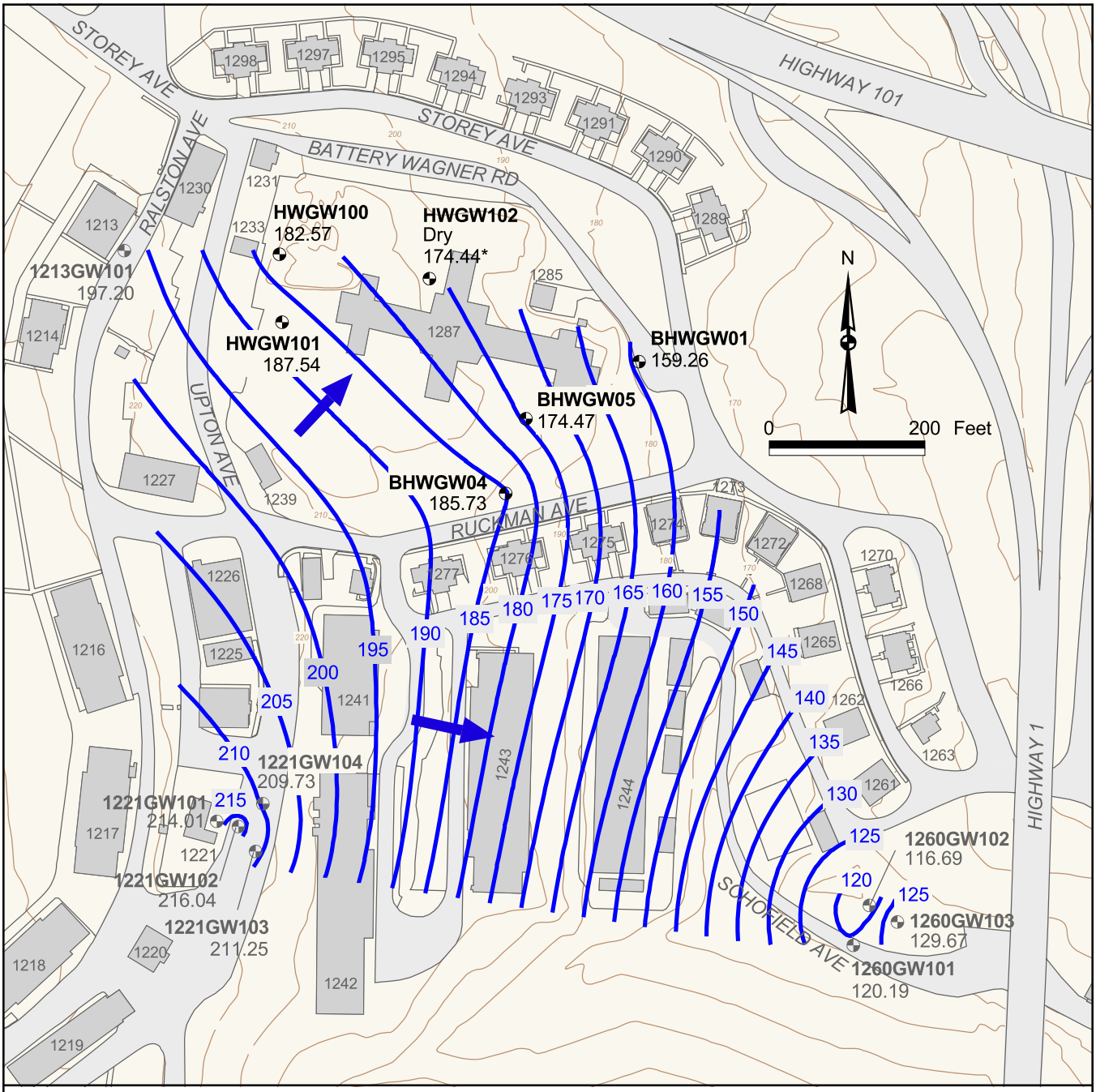
Table A-4-4
Groundwater Elevation Summary
Battery Howe/Wagner
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
HWGW101	06/04/07	26.46	214.24	187.78	MW
	02/26/07	26.70	214.24	187.54	MW
	12/04/06	27.86	214.24	186.38	MW
	08/14/06	25.50	214.24	188.74	MW
	05/22/06	22.52	214.24	191.72	MW
	03/06/06	24.40	214.24	189.84	MW
	11/28/05	28.34	214.24	185.90	MW
	08/29/05	26.22	214.24	188.02	MW
	05/23/05	23.43	214.24	190.81	MW
	03/14/05	25.22	214.24	189.02	MW
	12/13/04	29.52	214.24	184.72	MW
	08/09/04	28.31	214.24	185.93	MW
	05/24/04	26.71	214.24	187.53	MW
	03/08/04	26.33	214.24	187.91	MW
	12/01/03	29.85	214.24	184.39	MW
	08/11/03	27.33	214.24	186.91	MW
	06/02/03	25.78	214.24	188.46	MW
	03/10/03	26.88	214.24	187.36	MW
	12/02/02	29.80	214.24	184.44	MW
	08/26/02	28.10	214.24	186.14	MW
	05/28/02	26.05	214.24	188.19	MW
	03/04/02	26.40	214.24	187.84	MW
	11/26/01	30.22	214.24	184.02	MW
	08/27/01	29.09	214.24	185.15	MW
	05/08/01	27.33	214.24	186.91	MW
HWGW102	06/04/07	Dry	211.44	174.44 [2]	MW
	02/26/07	Dry	211.44	174.44 [2]	MW
	12/04/06	Dry	211.44	174.44 [2]	MW
	08/14/06	Dry	211.44	174.44 [2]	MW
	05/22/06	Dry	211.44	174.44 [2]	MW
	03/06/06	Dry	211.44	174.44 [2]	MW
	11/28/05	Dry	211.44	174.44 [2]	MW
	08/29/05	Dry	211.44	174.44 [2]	MW
	05/23/05	Dry	211.44	174.44 [2]	MW
	03/14/05	Dry	211.44	174.44 [2]	MW
	12/13/04	Dry	211.44	174.44 [2]	MW
	08/09/04	Dry	211.44	174.44 [2]	MW
	05/24/04	Dry	211.44	174.44 [2]	MW
	03/08/04	Dry	211.44	174.44 [2]	MW
	12/01/03	Dry	211.44	174.44 [2]	MW
	08/11/03	Dry	211.44	174.44 [2]	MW
	06/02/03	Dry	211.44	174.44 [2]	MW
	03/10/03	Dry	211.44	174.44 [2]	MW
	12/02/02	Dry	211.44	174.44 [2]	MW
	08/26/02	Dry	211.44	174.44 [2]	MW
	05/28/02	Dry	211.44	174.44 [2]	MW

Table A-4-4
Groundwater Elevation Summary
Battery Howe/Wagner
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
HWGW102	03/04/02	Dry	211.44	174.44 [2]	MW
	11/26/01	Dry	211.44	174.44 [2]	MW
	08/27/01	Dry	211.44	174.44 [2]	MW
	05/08/01	Dry	211.44	174.44 [2]	MW

Notes
1 - All depth to water measurements are an average of three measurements recorded in the field.
2 - Elevation indicates bottom of casing elevation.
MW - Monitoring Well
feet PLLW - feet above Presidio Lower Low Water vertical datum.



LEGEND

- Approximate Direction of Groundwater Flow
- Groundwater Contour (Contour Interval : 5 ft)
- Topographic Contour (Contour Interval : 10 ft)
- 1287 — Building and Number
- **HWGW101** 187.54 — Groundwater Monitoring Well February 2007 Groundwater Elevation
- 174.44* — Value Indicates Bottom of Casing Elevation in Feet PLLW
- **1213GW101** 197.20 — Adjacent Study Area Well February 2007 Groundwater Elevation

Notes:
Groundwater elevation data collected on 26 February 2007.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

BATTERY HOWE/WAGNER SITE PLAN AND 26 FEBRUARY 2007 GROUNDWATER ELEVATION MAP

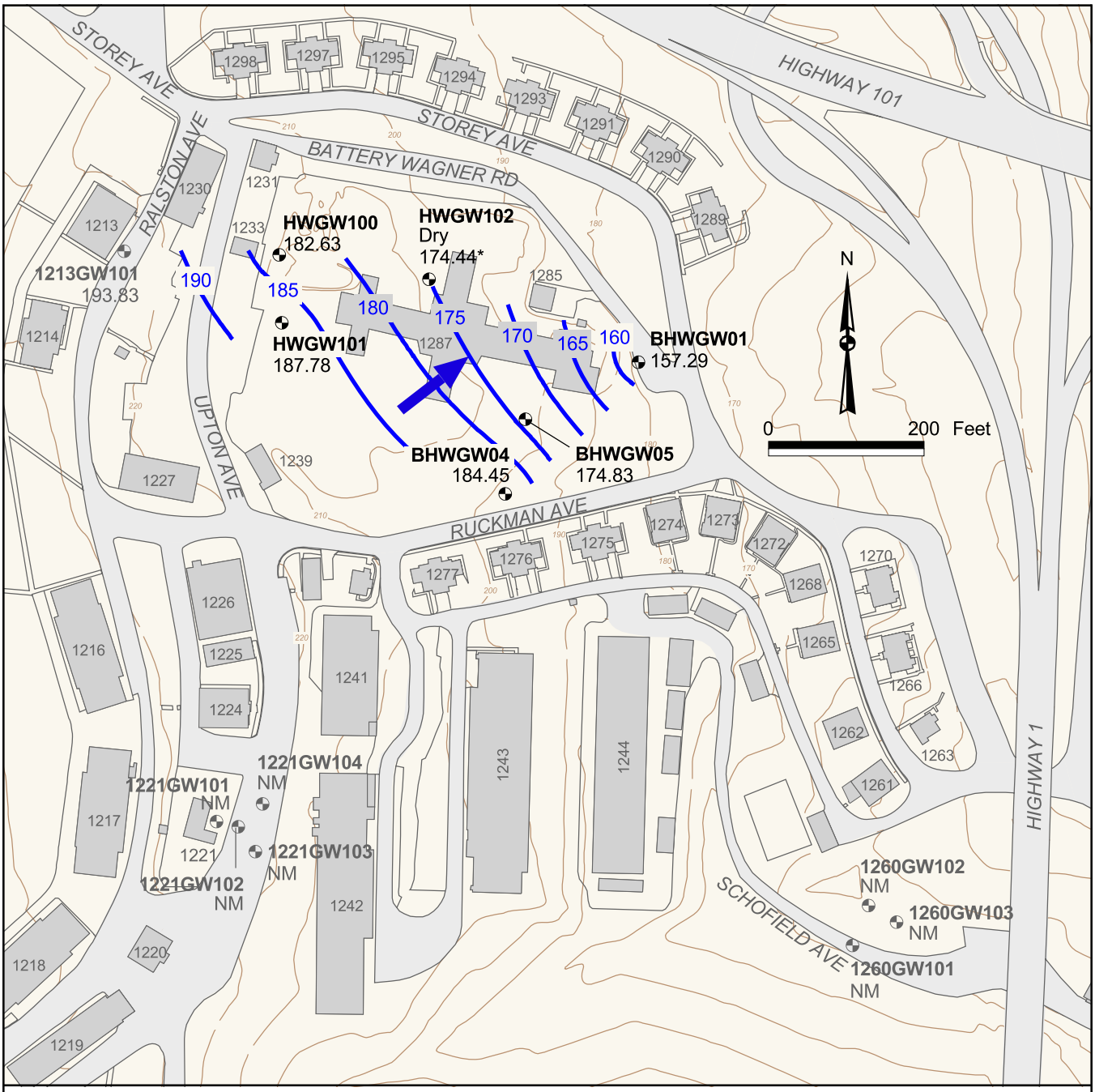
Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 561-5315
October 2007

FIGURE A-4-1

Treadwell & Rollo 2893_04\Q2_2007\A_04_A12.APR 10/2007



LEGEND

- Approximate Direction of Groundwater Flow
- Groundwater Contour (Contour Interval : 5 ft)
- Topographic Contour (Contour Interval : 10 ft)
- 1287 — Building and Number
- HWGW101 / 187.78 — Groundwater Monitoring Well, June 2007 Groundwater Elevation
- 174.44* — Value Indicates Bottom of Casing Elevation in Feet PLLW
- 1213GW101 / 193.83 — Adjacent Study Area Well, June 2007 Groundwater Elevation
- NM — Not Measured

Notes:
Groundwater elevation data collected on 4 June 2007.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

BATTERY HOWE/WAGNER SITE PLAN AND 4 JUNE 2007 GROUNDWATER ELEVATION MAP

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94129-0052
415/561-5300
fax 561-5315

October 2007

FIGURE A-4-2

Treadwell & Rollo 2893_04\Q2_2007\A_04_A12.APR 10/2007

First Quarter 2007

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Battery | Well No.: HWGW100

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BP | Sampled by: BP | Date: 3/6/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 30.04

Depth to Water (WL, ft. below TOC): 27.00

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type

[ ] Normal [X] Pump \ Type: 2" Grundfos

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft):

[X] Near Bottom Depth (ft): 29'

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 12 min

Recharge Rate: Purge Rate: 400 mL/min

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556 Hach 2100

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1201	1L	7.1	17.9	0.9	2640 MS	180	4	DTW = 28.00
1204	2L	7.1	17.7	1.0	2390	175	4	DTW = 28.23
1207	3L	7.1	17.9	1.0	2388	172	4	DTW = 28.28
1210	4L	7.1	18.0	1.1	2319	170	4	DTW = 28.30

Comments: Purge water storage/disposal: [X] ~~Drummed onsite~~ [X] Other Bulk

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: 3/6/07 1215

Purging Equipment: Pump - Type: 2" Grundfos Bailer - Type: Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
HWGW100	3 x 40 mL VOAs	CT	2198	
	1 x 500 HNO3			
	1 x 500 NP			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Battery | Well No.: HWGW 101

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BP | Sampled by: BP | Date: 3/6/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 31.07

Depth to Water (WL, ft. below TOC): 26.63

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type: 2" Grundfos
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft):
[X] Near Bottom Depth (ft): 30'
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 12 min

Recharge Rate:

Purge Rate: 400-500 ml/min

160 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556 Hach 2100

Time	/ Liters or Gallons	pH	Temp (C) °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1123	/ 1L	6.9	16.7	2.2	1164 mS	179	7	DTW: 27.33
1126	/ 2L	6.9	16.6	2.0	1157	177	6	DTW: 27.56
1129	/ 3L	6.9	16.7	2.1	1156	176	6	DTW: 27.71
1132	/ 4L	6.9	16.8	2.2	1155	177	6	DTW: 27.80
	/							
	/							
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	/							
	/							
	/							

Comments: | Purge water storage/disposal: [X] Drums on site [X] Other Baker

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/6/07 / 1135

Purging Equipment: Pump - Type: 2" Grundfos | Bailer - Type: | Other:

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
HWGW101	3 x 40 mL	CT	2198	
	1 x 500 HNO3			
	1 x 500 NP			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Battery | Well No.: BHWGW01

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: RD | Sampled by: RP | Date: 3/6/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 28.29

Depth to Water (WL, ft. below TOC): 18.04

Depth to free phase (FP, ft. below TOC):

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type

[ ] Normal [X] Pump \ Type: 2" grundfos

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft):

[X] Near Bottom Depth (ft): 26'

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = 1. gals CALCULATED PURGE VOLUME

Total Purge Time: 12 min

Recharge Rate: | Purge Rate: 400 mL/min

1.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556 Hach 2100

Time / Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1021 / 1L	7.6	17.0	0.6	1753 mS	171	~~17~~ 6	DTW=18.39
1024 / 2L	7.5	17.0	0.5	1747	171	5	DTW=18.43
1027 / 3L	7.4	17.6	0.4	1742	167	5	DTW=18.44
1030 / 4L	7.4	17.8	0.5	1746	166	5	DTW=18.44
1033 / 5L	7.3	17.9	0.4	1748	165	5	DTW=18.45
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Comments: | Purge water storage/disposal: ~~[X] Drummed onsite~~ [X] Other Baker

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: 3/6/07 / 1035

Purging Equipment: Pump - Type: 2" Grundfos | Bailer - Type: | Other:

Sample Filtered: Yes / No | Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BHWGW01	3 x 40 mL	CT	2198	
	1 x 500 HNO3			
	1 x 500 NP			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	BHWFWDSRB BHWGW01
Transfer	
Other:	

1010

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Baker | Well No.: BA ~~BHWGW~~ DHWGW04

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BR | Sampled by: BR | Date: 3/6/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 27.95

Depth to Water (WL, ft. below TOC): 11.95

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type

[ ] Normal [X] Pump \ Type 2" grundfos

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[X] Near Bottom Depth (ft) 25'

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 12 min

Recharge Rate: Purge Rate: 400 mL/min

55 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556 Hach 2100

Time	/ Liters or Gallons	pH	Temp (C) °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
833	/ 1L	7.0	16.3	1.7	965 mS	176	9	DTW = 12.21
836	/ 2L	7.0	16.8	1.3	971	166	8	DTW = 12.42
839	/ 3L	6.9	16.9	1.2	972	165	7	DTW = ~~12.50~~ 12.52
842	/ 4L	6.9	17.0	1.2	971	164	7	DTW = 12.56
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	/							
	/							

Comments: Purge water storage/disposal: ~~[X] On-site~~ [X] Other Baker

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/6/07 / 845

Purging Equipment: Pump - Type 2" grundfos | Bailer - Type | Other

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BHWGW04	9 x 40 mL pvl	CT	2198	MS/MSD (3 bottle set total)
	3 x 500 mL HNO3			
	3 x 500 mL NP			
	~~1 x 500 mL NP~~			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.
BHWGW04	DUP030607 3A

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Battery | Well No.: BHW6W05

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: RF | Sampled by: RF | Date: 3/6/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [✓] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 35.35

Depth to Water (WL, ft. below TOC): 27.35

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type 2" grundfos
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft) 33'
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 12 min

Recharge Rate: | Purge Rate: 400 mL/min

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556 Hach 2100

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
943 / 1L	6.8	16.5	0.3	1715 mS	178	5	DTW=28.01
946 / 2L	6.8	16.6	0.4	1718	178	5	DTW=28.20
949 / 3L	6.8	16.9	0.5	1711	178	5	DTW=28.43
952 / 4L	6.8	17.0	0.5	1710	178	5	DTW=28.49
/							
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Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/6/07 / 955

Purging Equipment: Pump - Type 2" Grundfos | Bailer - Type | Other

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BHW6W05	3 x 40 mL	CT	2198	
	1 x 500 mL HNO3			
	1 x 500 mL NP			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

Second Quarter 2007

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Battery Home Wayne — Well No.: BHWGW01

Project Number: 2893 — Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BP — Sampled by: BP — Date: 6-6-07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 28.23

Depth to Water (WL, ft. below TOC): 20.80

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type

[ ] Normal [X] Pump \ Type 2" grundfos

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[X] Near Bottom Depth (ft) 23'

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 21 min

Recharge Rate:

Purge Rate: 300 ml/min

~~gals~~ ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556 / Hach Turb.

Time	/ Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND mS/cm (or µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1318	/ Initial	7.60	18.5	2.81	1730	94.3	8	
1321	/ 1L	7.49	17.5	1.42	1734	94.7	7	DTW=21.11
1324	/ 2L	7.40	17.5	0.83	1732	95.0	7	DTW=21.20
1327	/ 3L	7.36	18.1	0.62	1732	95.9	7	DTW 21.31
1330	/ 4L	7.34	18.7	0.55	1728	96.3	7	DTW 21.37
1333	/ 5L	7.34	18.8	0.50	1735	96.2	7	DTW=21.42
1336	/ 6L	7.36	18.7	0.48	1739	94.8	6	DTW 21.44
1339	/ 7L	7.36	18.8	0.47	1738	95.0	7	DTW=21.46
	/							
	/							
	/							
	/							
	/							
	/							
	/							

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6-6-07 / 1340

Purging Equipment: Pump - Type 2" grundfos — Bailer - Type — Other

Sample Filtered: (Yes) / No — Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BHWGW01	6 x 500 mL	CT	2161	MS/MSD

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.
BHWGW01	DUP060607B
	BHWGW01CL

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Battery House Wagner — Well No.: BHWGW04

Project Number: 2893 — Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BP — Sampled by: BP — Date: 6-6-07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 27.66

Depth to Water (WL, ft. below TOC): 13.53

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type 2" Grundfos
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft) 25'
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 15 min

Recharge Rate: — Purge Rate: 300 mL/min

5L ~~gals~~ ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556 Flowcell/Hach Turb.

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND ~~mS~~ µS/cm	ORP (mV)	Turbidity (NTU)	Comments
1040 / Initial	7.09	16.8	4.31	951 mS	166.4	12	
1043 / 1L	7.09	16.6	3.00	954	169.3	10	DTW=14.08
1046 / 2L	7.09	16.6	1.80	954	165.7	10	DTW=14.28
1049 / 3L	7.07	16.8	1.55	953	166.0	9	DTW=14.46
1052 / 4L	7.06	17.0	1.48	953	165.6	9	DTW=14.53
1055 / 5L	7.07	17.1	1.52	954	162.5	9	DTW=14.56
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments: — Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6-6-07 / 1100

Purging Equipment: Pump - Type 2" Grundfos — Bailer - Type — Other

Sample Filtered: (Yes) / No — Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BHWGW04	2 x 500mL	CAT	2161	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	BHWGW04RBHWGW100
Transfer	
Other:	

1110

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Battery Howe Wagner | Well No.: BHWGW05

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BA | Sampled by: BA | Date: 6-6-07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 35.25

Depth to Water (WL, ft. below TOC): 28.23

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type: 2" grundfos
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft):
[X] Near Bottom Depth (ft): 34'
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 15 min

Recharge Rate: | Purge Rate: 300 mL/min

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556 (Black Trunk)

Time / Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1241 / Initial	6.89	17.9	2.54	1702	83.1	15	
1244 / 1L	6.85	17.1	1.58	1719	65.5	11	DTW=28.50
1247 / 2L	6.83	16.7	1.09	1720	56.0	13	DTW=28.65
1250 / 3L	6.86	16.8	0.45	1717	36.7	12	DTW=28.75
1253 / 4L	6.87	17.2	0.49	1713	31.3	13	DTW=28.86
1256 / 5L	6.90	17.5	0.49	1715	27.5	12	DTW=28.90
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 6-6-07 / 1300

Purging Equipment: Pump - Type: 2" grundfos | Bailer - Type: | Other:

Sample Filtered: (Yes) / No | Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BHWGW05	2 x 500mL HNO3	CLT	2161	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bayway Howe Wagner | Well No.: HWGW101

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BP | Sampled by: BP | Date: 6-6-07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 31.00

Depth to Water (WL, ft. below TOC): 26.60

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type 2" grundfos
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft) 30'
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 18 min

Recharge Rate: | Purge Rate: 300 ml/min

5L ~~gals~~ ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YS 1558 / Hach Turb.

Time / (Liters or Gallons)	pH	Temp (C) °F	DO (mg/L)	Sp. COND ~~uS/cm~~	ORP (mV)	Turbidity (NTU)	Comments
1202 / Drilled	7.29	18.5	3.30	1152 mS	143.7	17	
1205 / 1L	7.13	17.5	2.13	1118	143.4	15	DTW=27.30
1208 / 2L	7.10	17.5	1.96	1111	141.1	15	DTW=27.44
1211 / 3L	7.06	17.7	1.92	1110	140.8	14	DTW=27.55
1214 / 4L	6.98	18.1	1.91	1108	142.9	14	DTW=27.62
1217 / 5L	7.00	18.5	1.92	1107	138.8	15	DTW=27.65
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6-6-07 / 1220

Purging Equipment: Pump - Type 2" grundfos | Bailer - Type | Other

Sample Filtered: (Yes) No | Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
HWGW101	2 x 500 ml	CT	2161	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bathtub Howe Wagner | Well No.: HWGW100

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BP | Sampled by: BC | Date: 6-6-07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 29.96

Depth to Water (WL, ft. below TOC): 27.16

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type

[ ] Normal [X] Pump \ Type: 2" grundfos

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft):

[X] Near Bottom Depth (ft): 29.5'

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: 300 mL/min

4L gals ACTUAL PURGE VOLUME

Meter Type: YSI 556/YSI 556 / Hach Tests

GROUNDWATER PARAMETER MEASUREMENTS

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1125	/	Purge	7.39	17.6	2.83	2327	146.2	18	
1128	/	1L	7.31	17.5	2.38	2041	146.0	15	Unable to take DTW
1131	/	2L	7.18	17.7	1.74	1963	146.8	14	due to sounde hitting
1134	/	3L	7.12	18.5	1.35	2078	149.5	13	top of pump
1137	/	4L	7.07	19.0	1.15	2197	153.3	14	
	/	well Dewatered @			4.5 Liters				DTW=29.17
	/								
1408	/		DTW=28.28						
	/								
820	/	—	7.41	15.6	1.75	2498	234.7	19	DTW=27.59
	/								
	/								
	/								
	/								
	/								

Comments: 802=27.72 | Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 6-6-07 / 820

Purging Equipment: Pump - Type ~~2" Grundfos~~ QP | Bailer - Type disposable | Other

Sample Filtered: (Yes) / No | Filtered Sample Analysis: MTBE

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
HWGW100	2 x 500 mL poly	CAT	2125	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Battery Howe / Wagner — Well No.: HWGW102

Project Number: 2893 — Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish — Sampled by: [illegible] — Date: 6/14/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC) :

Depth to Water (WL, ft. below TOC) :

Depth to free phase (FP, ft. below TOC) :

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length ___ X Water Volume/ft ___ X No. Vols ___ = ___ gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate — Purge Rate

___ gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/	* Well Dry No Purge or Sample for this event						
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments — Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD — Date/Time Sampled: /

Purging Equipment: Pump - Type — Bailer - Type — Other

Sample Filtered: Yes / No — Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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BUILDING 1349 STUDY AREA
APPENDIX SECTION A-5
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2007
Presidio of San Francisco, California

1.0 INTRODUCTION AND BACKGROUND

The Building 1349 Study Area is located in the western portion of the Presidio (Figure 1). Building 1349 is east of Washington Boulevard, west of Harrison Boulevard, and south of Kobbe Avenue (Figure A-5-1). The Building 1349 Area is approximately 310 to 320 feet above the PLLW datum.

Building 1349 was a 100,000-gallon steel aboveground storage tank (AST) built in the 1950s and used in the base-wide fuel distribution system (FDS). The Building 1349 location (Figure A-5-1) was previously occupied by an AST of similar volume, which was built in 1906. A network of pipelines distributed the fuel to various areas throughout the Presidio. Use of the FDS was stopped in the early 1960s and the pipelines were left in place. The Army began an FDS pipeline removal and abandonment project in 1996, which removed most of the FDS pipelines. After the FDS was taken out of service, the AST associated with the FDS was used to store diesel fuel, which was off-loaded to tanker trucks for transportation to various locations in the Presidio (Montgomery Watson, 1996c). The International Technology Corporation (IT) removed Building 1349 in 1996. The Building 1349 monitoring wells are associated with former fueling operations at the Building 1349 Area.

Since the Second Quarter 2001, existing Building 1349 wells have been sampled and analyzed for general chemistry parameters, TPH, VOCs, OCPs, PCBs, PAHs, TDS, chlorinated herbicides, and/or dissolved metals. Summaries of the analytical results are presented in Tables A-5-1 through A-5-7.

The *Final Corrective Action Plan, Building 1349 Study Area, Presidio of San Francisco* (CAP) (BBL, 2006) was submitted to the stakeholders in February 2006. Groundwater sampling at the Building 1349 Area will be conducted in accordance with the CAP following the CAP's implementation. The CAP is currently scheduled to be implemented in the fall of 2007. The recommended corrective actions for the Building 1349 Area are discussed in Section 3.0. Cleanup levels proposed in the CAP are presented in Tables A-5-2 through A-5-7.

2.0 SITE DESCRIPTION AND GEOLOGY

The Building 1349 Area is located on a topographic high point on the boundary of the Marina Groundwater Basin and the Coastal Bluffs Groundwater Basin (Figures 1 and A-5-1). Surface

and groundwater flow directions vary across the Building 1349 site. Building 1349 monitoring wells 1394MW103, 1349MW104 and 1349MW105 are located within the Marina Groundwater Basin. The six remaining Building 1349 wells are located within the Coastal Groundwater Basin.

Since the Second Quarter 2001, groundwater depths beneath the site in wells located in the Coastal Groundwater Basin have ranged from approximately 23 to 38 feet bgs. Groundwater flow direction at Building 1349 follows the general topographic trend. Previous groundwater elevation measurements indicate that groundwater beneath the western part of the site consistently flows to the west and southwest towards Fill Site 5 (FS 5) within the Coastal Groundwater Basin (Table A-5-8). Groundwater elevation measurements from wells 1349MW103, 1349MW104, and 1349MW105 indicate that groundwater in this area generally flows in a northeasterly direction within the Marina Groundwater Basin (Table A-5-8) though a northwesterly flow direction was present in the Fourth Quarter 2003 and Third and Fourth Quarters 2004.

Soil units beneath most of the Building 1349 Area consist of Quaternary slope debris and ravine fill. Siltstone, sandstone, shale, and serpentinite of the Franciscan Formation underlie the Quaternary deposits. The slope debris and ravine fill layer is highly variable, consisting of differing combinations and percentages of silts, clays, sands, and gravels and varying in thickness from less than 5 to over 25 feet.

A high-resolution seismic reflection study was previously conducted by Montgomery Watson at the study area (Montgomery Watson, 1996b). The purpose of the study was to assess the depth to bedrock and whether seismic faults and fractures at the site could affect subsurface migration of contaminants. The study identified eight bedrock lineaments or weak zones that transect the site. Treadwell and Rollo conducted a two phase Site Investigation (SI) in 2002 and 2003. Based on the field observations from the first phase of the SI (Phase I SI) and previous boring logs, the underlying bedrock is highly fractured and weathered with varying degrees of hardness. In many of the fracture zones, particularly in the serpentinite units, clay and silt fault gouge with clasts or fragments of more competent rock were observed. Due to the lateral discontinuity and the varying elevations at which they were observed in the soil borings the extent of these bedrock fractures appears to be limited (Treadwell & Rollo, 2003d). The lineaments and an interred fault from the Montgomery Watson study are shown on Figure 4 of the *Draft Site Investigation Report* (SI), *Building 1349 Study Area, Presidio of San Francisco, California*, which was submitted to stakeholders in October 2003 (Treadwell & Rollo, 2003d).

Soil borings advanced during the Phase I SI generally encountered wet soil samples in the bedrock at depths ranging from approximately 30 to 40 feet bgs. After leaving the borings open for at most 48 hours, water levels were measured at depths ranging from 29 to 43 feet bgs, depending on the boring location. In several of the Phase I SI borings drilled to 40 feet bgs and into the bedrock, groundwater was not present or only a few inches of water had accumulated in the borings after approximately 48 hours. Based on these findings, groundwater appears to be

present only in particular locations within bedrock fractures and its occurrence is laterally discontinuous across the site. Groundwater movement likely follows the fractures within the bedrock and flows downslope following surface topography (Treadwell & Rollo, 2003d).

3.0 BUILDING 1349 STUDY AREA CAP

The Final Building 1349 Study Area CAP was submitted to the stakeholders in February 2006 (BBL, 2006). Groundwater sampling at the Building 1349 Area will be conducted in accordance with the CAP following its implementation. The CAP identifies four remedial units (RUs); shallow soil RU, deep soil RU, telecommunications conduit RU and the groundwater RU. The preferred alternative for each of the three soil RUs was excavation and offsite disposal. The preferred alternative for the groundwater RU was selected to be groundwater monitoring. The CAP is scheduled to be implemented in 2007. CAP cleanup levels are presented in Tables A-5-2 through A-5-7.

4.0 GROUNDWATER MONITORING

Building 1349 currently has nine associated monitoring wells (Figure A-5-1). Groundwater elevations were collected at all nine Building 1349 monitoring wells during the First and Second Quarters 2007, as proposed.

Six Building 1349 monitoring wells were purged and sampled during the First Quarter 2007. Monitoring well 1349MW100 was the only well proposed for sampling during the Second Quarter 2007 and therefore, it was the only well sampled.

4.1 Groundwater-Level Measurements and Interpretation

Groundwater elevation measurements were collected on 26 February and 4 June 2007. Groundwater elevations are presented in Table A-5-8. Groundwater elevations of nearby FS 5 wells can be found in Table A-9-8. Water level meters were calibrated on 26 February and 4 June 2007 and the calibration logs can be found in Appendix B. Groundwater elevation field forms can be found in Appendix C.

To provide a broader understanding of groundwater gradients and flow directions in the Building 1349 Area, FS 5 and Baker Beach Disturbed Area 3 groundwater elevations were evaluated with Building 1349 Area groundwater elevations during the First Quarter 2007. The majority of groundwater elevations measured during the First Quarter 2007 were within historical ranges (Table A-5-8). Groundwater elevation measurements were not proposed at Fill Site 5 during the Second Quarter 2007 and therefore, were not collected. Groundwater elevation maps showing the First and Second Quarters 2007 groundwater contours and flow direction for the Building 1349/Fill Site 5 Area are included as Figures A-5-1 and A-5-2, respectively.

First Quarter 2007 groundwater elevations ranged from 275.64 to 286.51 feet above PLLW in Building 1349 Area monitoring wells 1349MW01 and 1349MW101, respectively (Figure A-5-1). Second Quarter 2007 groundwater elevations ranged from 274.73 to 285.70 feet above PLLW in Building 1349 Area monitoring wells 1349MW01 and 1349MW105, respectively (Figure A-5-2).

Building 1349 Area groundwater in the Coastal Bluffs Groundwater Basin (wells 1349MW03R, and 1349MW100 through 1349MW102) was observed to flow to the southwest during the First and Second Quarters 2007. Groundwater flow in the area of the Marina Groundwater Basin (wells 1349MW103 through 1349MW105) has generally ranged from southeasterly to northwesterly. However, during the First and Second Quarters 2007, groundwater flow in this area was to the west-southwest.

During the First and Second Quarters 2007, the groundwater gradient between 1349MW100 and 1349MW03R was calculated to be approximately 0.07 and 0.11 feet per foot, respectively. Groundwater gradient in the vicinity of monitoring wells 1349MW103 through 1349MW105 was calculated to be approximately 0.015 and 0.02 feet per foot during the First and Second Quarters, respectively. Groundwater flow directions and gradients are generally consistent with the majority of previously calculated flow directions and gradients at the site. However, as mentioned above, flow direction in the area of monitoring wells 1349MW103 through 1349MW105 has also been observed to be to the northwest on three past occasions, and to the southeast during Second Quarter 2006. Groundwater monitoring well locations and First and Second Quarter 2007 groundwater elevations are shown on Figures A-5-1 and A-5-2.

4.2 Monitoring Well Purging and Sampling

All six Building 1349 Area monitoring wells scheduled for sampling during the First Quarter 2007 were purged and sampled between 28 February and 1 March 2007. Monitoring well 1349MW100 was the only well proposed for sampling during the Second Quarter 2007 and was purged and sampled on 6 June 2007. All Building 1349 Area monitoring wells were purged and sampled using methods shown in Tables 1A and 1B, and in accordance with procedures described in the FSP (Treadwell & Rollo, 2001a).

Purge equipment, volumes, and general chemistry parameters for each monitoring well are described in the purge records located at the conclusion of this section. Purge water was stored for future disposal in a 2,800-gallon aboveground polyethylene storage tank located at the Central Magazine.

4.3 Groundwater Analytical Program

All groundwater samples collected were submitted to the project laboratory for the analyses shown in Tables 1A and 1B of the main text. The appropriate sampling containers, preservatives, and maximum holding times for each analytical method are described in Table 5.

Sample containers used for each well are described in the purge records located at the conclusion of this section.

QA/QC samples were collected as part of this program. Section 6.2 of the main report discusses the QA/QC sampling and analysis performed for the First and Second Quarters 2007.

5.0 GROUNDWATER ANALYTICAL RESULTS

All groundwater samples collected from Building 1349 Area monitoring wells during the First Quarter 2007 were analyzed for general chemistry parameters, TDS, OCPs, VOCs, PAHs, TPHg, TPHd, TPHfo, and 23 dissolved metals. In addition, monitoring wells 1349MW02 and 1349MW100 were analyzed for PCBs (Table 1A).

Groundwater samples collected from Building 1349 Area monitoring well 1349MW100 during the Second Quarter 2007 were analyzed for general chemistry parameters, TDS, OCPs, VOCs, PAHs, TPHg, TPHd, TPHfo, and 23 dissolved metals (Table 1B).

5.1 Dissolved Oxygen

Dissolved oxygen results are presented in Table A-5-1. During the First Quarter 2007, dissolved oxygen was measured at concentrations ranging from 0.81 mg/L in monitoring well 1349MW100 to 1.90 mg/L in monitoring well 1349MW104. During the Second Quarter 2007, the dissolved oxygen concentration within well 1349MW100 was 0.26 mg/L.

Dissolved oxygen concentrations measured during the First and Second Quarters 2007 are within historical ranges.

5.2 General Chemistry Results

General chemistry results are presented in Table A-5-1. General chemistry results for the First and Second Quarters 2007 within the Building 1349 Area are generally within historical ranges. The table below summarizes new high and low general chemistry analytical results when compared to previous sampling events, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the number of sampling events, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2007		Units
			Minimum	Maximum	Minimum	Maximum	
General Chemistry							
1349MW01	Alkalinity, Total	30/30	270	574	260	--	mg/L
1349MW02	Alkalinity, Total	35/35	548	720	--	760	mg/L
	Bicarbonate	35/35	548	720	--	760	mg/L
	Chloride	35/35	501	860	--	1,100	mg/L
	Sulfate	35/35	52	88	--	160	mg/L
	Total Dissolved Solids	35/35	1,160	2,170	--	2,270	mg/L
1349MW100	Alkalinity, Total	24/24	660	1,000	470	--	mg/L
	Bicarbonate	23/23	660	1,000	470	--	mg/L
1349MW103	Alkalinity, Total	8/8	310	670	--	900	mg/L
	Bicarbonate	8/8	310	670	--	900	mg/L
	Chloride	8/8	790	930	--	1,100	mg/L
	Fluoride	8/8	0.29	0.66	0.28	--	mg/L
	Sulfate	8/8	95	110	--	140	mg/L
	Total Dissolved Solids	8/8	1,320	2,220	--	2,330	mg/L
1349MW104	Chloride	7/7	770	870	--	880	mg/L
	N as Nitrate	5/7	0.07	0.35	0.05	--	mg/L
	Sulfate	7/7	55	74	--	84	mg/L

The majority of the general chemistry parameters measured during the First and Second Quarters 2007 are within historical ranges. Significant new high and low general chemistry results are discussed below.

- Sulfate was detected at a new high concentration of 160 mg/L in the sample collected from 1349MW02 during the First Quarter 2007. This is almost twice the previous high concentration for this location.

General chemistry parameters within Building 1349 Area monitoring wells have remained relatively stable. The variation in general chemistry parameter concentrations within Building 1349 Area monitoring wells can likely be attributed to natural fluctuations and are not considered to be significant.

5.3 TPH Results

Results of TPH analyses are presented in Table A-5-2 and on Figure A-5-3. All TPH analyses were performed in accordance with Tables 1A and 1B.

During the First Quarter 2007, TPH was only detected in the samples from 1349MW100. TPHg was detected in the primary and duplicate samples from 1349MW100 at concentrations of 1,200 and 620 µg/L, respectively. The primary sample detection exceeds the CAP-specified cleanup

level of 770 µg/L for TPHg. The RPD between the primary and duplicate sample concentrations failed the RPD 50% acceptance criteria at 64%. A review of laboratory documentation does not identify a reason for this discrepancy.

TPHd was detected in both the primary and duplicate samples at a concentration of 15,000 µg/L within monitoring well 1349MW100. These detections exceed the CAP-specified cleanup level of 880 µg/L for TPHd.

TPHfo was detected in the duplicate sample (DUP0301073B) from 1349MW100 at a concentration of 670 µg/L, which is below the CAP-specified cleanup level of 1,200 µg/L. TPHfo was not detected in the primary sample from 1349MW100 during the First Quarter 2007.

During the Second Quarter 2007, TPHg was detected in the primary, duplicate and QC duplicate samples collected from 1349MW100 at concentrations of 5,000, 1,500, and 580 µg/L, respectively. The primary sample detection was a new high concentration for 1349MW100, and both the primary and duplicate sample results exceeded the CAP-specified cleanup level. The RPD between the primary/duplicate and QC duplicate sample concentrations failed the RPD 50% acceptance criteria specified in the QAPP. A review of laboratory documentation does not identify a reason for this discrepancy.

TPHd was detected in the primary, duplicate and QC samples from 1349MW100 at concentrations of 13,000, 20,000, and 29,000, respectively. These detections exceed the CAP-specified cleanup level of 880 µg/L for TPHd. The RPD between the primary and QC duplicate sample concentrations failed the RPD 50% acceptance criteria at 76%. A review of laboratory documentation does not identify a reason for this discrepancy.

TPHfo was not detected within the primary sample from 1349MW100 during the Second Quarters 2007. However, TPHfo was detected within the duplicate and the QC duplicate samples collected during the Second Quarter 2007 at concentrations of 360 and 700 µg/L, respectively. TPHfo has never been detected above its CAP-specified cleanup level of 1,200 µg/L within 1349MW100.

TPH concentrations at the site have generally been non-detect with the exception of TPHg and TPHd concentrations in 1349MW100. There was no evidence of free phase product or a sheen observed during sampling at 1349MW100 during either the First or Second Quarters 2007. TPHg and TPHd concentrations within 1349MW100 continue to fluctuate, typically in excess of their applicable cleanup levels. The potential for increasing or decreasing TPH concentration trends at the site will continue to be evaluated in future monitoring events.

5.4 OCP and PCB Results

OCP and PCB results are presented in Table A-5-4. Beta-BHC and gamma-BHC results are also shown on Figure A-5-3.

Several OCPs were detected in the primary and duplicate samples from monitoring well 1349MW100 during First Quarter 2007. Gamma-BHC, gamma-chlordane and heptachlor were all detected within 1349MW100 at concentrations exceeding their respective CAP-specified cleanup levels.

OCPs were detected in the primary, duplicate, and QC samples from monitoring well 1349MW100 during Second Quarter 2007. Alpha-chlordane and heptachlor were detected within 1349MW100 at concentrations exceeding their respective CAP-specified cleanup levels.

OCPs have also been detected in the past in monitoring wells 1349MW03R, 1349MW101, and 1349MW102, which are generally downgradient of monitoring well 1349MW100. However, OCPs have not been detected within any of these wells for at least eleven sampling events.

All OCPs detected during the First and Second Quarters 2007 were within historical concentration ranges. PCBs have not been detected within any Building 1349 Area monitoring well samples to date.

5.5 Chlorinated Herbicides

Chlorinated herbicides were not proposed for sampling and analysis during the First and Second Quarters 2007 and were removed from the Building 1349 Area sampling plan due to a lack of significant detections.

5.6 PAHs

All Building 1349 monitoring well samples collected during the First Quarter 2007 were analyzed for PAHs. Monitoring wells 1349MW100 was the only sample analyzed for PAHs during the Second Quarter 2007.

Several PAH compounds were detected within monitoring well 1349MW100 during the First and Second Quarters 2007 at concentrations within historical levels. PAHs were not detected in any other Building 1349 Area monitoring wells sampled during the First and Second Quarters 2007.

During the First Quarter 2007, acenaphthene, anthracene, bezno(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, fluoranthene, fluorene, phenanthrene, and pyrene were all detected in the primary and/or duplicate samples collected from 1349MW100. The RPD between the primary and duplicate samples for acenaphthene, anthracene, bezno(a)anthracene, chrysene, fluoranthene, and pyrene all failed the QAPP-specified 50% criteria for the RPD. A review of laboratory and DataVal reports does not indicate a reason for this discrepancy.

During the Second Quarter 2007, acenaphthene, anthracene, bezno(a)anthracene, benzo(k)fluoranthene, chrysene, fluoranthene, fluorene, phenanthrene, and pyrene were all detected in the primary, duplicate and/or QC duplicate samples collected from 1349MW100. The RPD between the primary and duplicate samples for acenaphthene, bezno(a)anthracene, chrysene, and fluoranthene all failed the QAPP-specified 50% criteria for the RPD. A review of laboratory and DataVal reports does not indicate a reason for this discrepancy.

Concentrations of benzo(a)anthracene in the First and Second Quarters 2007 detected in 1349MW100 exceed the Building 1349 Area CAP-specified cleanup level of 0.1 µg/L. Additionally, the concentration of benzo(b)fluoranthene detected in the primary sample collected during the First Quarter 2007 exceeds the Building 1349 Area CAP-specified cleanup level of 0.2 µg/L. No other PAH concentrations exceeded their applicable CAP-specified cleanup levels during the First or Second Quarters 2007.

PAH concentrations continue to fluctuate within monitoring well 1349MW100 with eight to 10 PAHs typically present in recent sampling events. The potential for increasing or decreasing PAH concentration trends at monitoring well 1349MW100 will continue to be evaluated in future monitoring events.

5.7 VOC Results

VOCs were only detected in the samples from 1349MW100 during the First and Second Quarters 2007. Several Building 1349 Area wells were sampled for VOCs during the First Quarter 2007, but monitoring well 1349MW100 was the only well sampled during the Second Quarter 2007. VOC results are summarized in Table A-5-3.

Benzene was detected within monitoring well 1349MW100 during the First Quarter 2007 in the primary and duplicate samples at a concentration of 29 and 28 µg/L, respectively, and in the Second Quarter 2007 primary, duplicate, and QC samples at concentrations of 25, 24, and 21 µg/L, respectively. All detected concentrations exceed the Building 1349 Area cleanup level for benzene of 1 µg/L.

Total xylenes were detected within monitoring well 1349MW100 during the First Quarter 2007 in the primary and duplicate samples at a concentration of 1.4 and 1.5 µg/L, respectively, and in the Second Quarter 2007 primary and duplicate samples at concentrations of 0.8 and 0.7 µg/L, respectively. The detected concentrations of total xylenes are well below the cleanup level. No other VOCs were detected during the First and Second Quarters 2007 in Building 1349 Area monitoring well samples.

5.8 Dissolved Metals Results

Dissolved metals results are presented in Table A-5-7 and arsenic, chromium, and iron results are illustrated in Figure A-5-3. The majority of the dissolved metal concentrations detected during the First and Second Quarters 2007 are within historical ranges.

The following table summarizes new high and low dissolved metal results for the First and Second Quarters 2007 when compared to previous sampling events, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the number of sampling events, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2007		Units
			Minimum	Maximum	Minimum	Maximum	
Metals							
1349MW01	Antimony	4/20	0.53	<5	0.07	--	µg/L
	Barium	20/20	32	620	29.3	--	µg/L
	Cadmium	3/20	<1	<1	0.82	1.5	µg/L
	Cobalt	2/20	0.97	<10	0.43	--	µg/L
	Zinc	10/20	<10	200	--	689	µg/L
1349MW02	Magnesium	33/33	176,000	290,000	--	430,000	µg/L
	Total Dissolved Solids	35/35	1,160	2,170	--	2,270	mg/L
1349MW100	Chromium	5/22	7.2	16	5	--	µg/L
	Cobalt	4/22	5.1	33	0.98	--	µg/L
	Nickel	4/22	15	28	9.7	--	µg/L
	Potassium	20/22	2,400	7,600	2,000	--	µg/L
1349MW103	Barium	5/8	<10	26	--	48	µg/L
	Calcium	8/8	72,000	88,000	--	92,000	µg/L
	Iron	7/8	170	390	100	--	µg/L
	Magnesium	8/8	190,000	330,000	--	480,000	µg/L
	Nickel	7/8	42	180	--	210	µg/L
	Potassium	8/8	5,400	13,000	4,500	--	µg/L
	Sodium	8/8	180,000	200,000	--	250,000	µg/L
	Total Dissolved Solids	8/8	1,320	2,220	--	2,330	mg/L
1349MW104	Calcium	7/7	65,000	82,000	--	84,000	µg/L
	Iron	6/7	180	410	100	--	µg/L
	Magnesium	7/7	260,000	320,000	--	350,000	µg/L
1349MW105	Antimony	6/7	1.4	4.5	1	--	µg/L
	Iron	7/7	130	600	110	--	µg/L
	Manganese	7/7	210	380	200	--	µg/L
	Potassium	7/7	8,900	16,000	6,700	--	µg/L

Significant new high and low dissolved metals results are discussed below.

- During the First Quarter 2007, dissolved cadmium was detected just above the laboratory reporting limit in the primary and duplicate samples within monitoring well 1349MW01 at concentrations of 1.5 and 1.4 µg/L, respectively. These detections were also new high concentrations for this well, however, the concentrations were below the cleanup level for cadmium of 5.0 µg/L. Additionally, cadmium was detected below the primary laboratory's reporting limit at a concentration of 0.82 µg/L in the QC duplicate sample collected from 1349MW01 during the First Quarter 2007.
- During the First Quarter 2007, dissolved zinc was detected at a new high concentration of 689 µg/L in the QC duplicate sample monitoring well 1349MW01. This is more than three times the previous high concentration for this well, however, the concentration is well below the cleanup level for zinc of 5,000 µg/L. Dissolved zinc was also detected in the primary and duplicate samples at a concentration of 25 µg/L. The RPD between the primary and the duplicate samples and the QC duplicate sample exceeds the QAPP-specified acceptance limit of 50%. A review of laboratory documentation does not identify a reason for this discrepancy.
- During the First Quarter 2007, dissolved magnesium was detected at a concentration of 430,000 µg/L within 1349MW02, which is more than 50% higher than the previous high detection within this well. Dissolved magnesium does not have a CAP-specified cleanup level.
- During the First Quarter 2007, dissolved barium was detected at a new high concentration in monitoring well 1349MW103 of 48 µg/L. This is almost twice the previous high concentration for this well, however, the concentration is well below the cleanup level for barium of 1,000 µg/L.
- During the First Quarter 2007, dissolved nickel was detected at a new high concentration of 210 µg/L within monitoring well 1349MW103. This detection exceeds the cleanup level for nickel of 100 µg/L, however, it is within the range of previous detections at this location.

Additionally, the following metals detections exceeded CAP-specified cleanup levels.

- Dissolved chromium was detected during the First Quarter 2007 at concentrations of 81 and 120 µg/L in 1349MW02 and 1349MW03R, respectively. Both concentrations are within historical ranges, but exceed the CAP-specified cleanup level of 50 µg/L.
- During the First Quarter 2007, dissolved arsenic was detected at a concentration of 11 µg/L within monitoring well 1349MW105. Dissolved arsenic was also detected during the Second Quarter 2007 at a concentration of 18 µg/L within the QC duplicate sample from 1349MW100. These detections both exceed the cleanup level

of 10 µg/L for arsenic, however, they are within the range of previous detections at these locations.

The RPD between the primary/duplicate and QC duplicate sample concentrations for arsenic within 1349MW100 during the Second Quarter 2007 failed the RPD 50% acceptance criteria. A review of laboratory documentation does not identify a reason for this discrepancy. All detected concentrations of arsenic within 1349MW100 during the Second Quarter 2007 were within historical ranges.

The remaining concentrations of dissolved metals likely represent natural fluctuations and are not considered significant. The potential for increasing or decreasing concentration trends will be evaluated in future quarterly monitoring events.

6.0 CONCLUSIONS & RECOMMENDATIONS

Six Building 1349 monitoring wells were sampled during the First Quarter 2007. Monitoring well 1349MW100 was the only well sampled during the Second Quarter 2007.

The Building 1349 Area CAP was finalized and submitted to the stakeholders in February 2006. Groundwater sampling at the Building 1349 Area will be conducted in accordance with the CAP when the CAP is implemented. The recommended corrective actions for the Building 1349 Area are detailed in the CAP and are summarized in Section 3.0.

OCPs, PAHs, TPH and VOCs compounds continue to be detected within monitoring well 1349MW100 above CAP-specified cleanup levels, however, the detected concentrations of these compounds has remained relatively stable over recent quarters and concentrations were not observed outside of historical bounds.

Additionally, monitoring wells 1349MW02, 1349MW03R, 1349MW100, 1349MW103, and 1349MW105 all had at least one dissolved metal detected above CAP-specified cleanup levels during the First and/or Second Quarter 2007.

Dissolved arsenic, iron, and manganese have been detected in monitoring well 1349MW100 samples at concentrations generally higher than within the other Building 1349 monitoring wells. Arsenic is commonly found in the natural environment and is often present in combination with iron and manganese oxides. Arsenic has also been detected at elevated concentrations in monitoring well 1349MW105, although not in association with elevated concentrations of manganese or iron. Arsenic, iron and manganese are generally more soluble and mobile under reducing conditions. A reducing environment likely exists within 1349MW100 due to the degradation of petroleum hydrocarbons present at this well. This chemical process is likely contributing to the elevated levels of dissolved arsenic, iron and manganese within 1349MW100. Future detections and concentration trends for these metals will continue to be monitored and evaluated.

Building 1349 Area monitoring wells will continue to be sampled in accordance with the Building 1349 Area CAP, and results evaluated against the Building 1349 Area CAP cleanup levels.

Table A-5-1
Results of General Chemistry Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
1349MW01	03/01/07	290	290	860	1.28	< 0.1	1.6	< 0.1	NA	280	145.0	7.50	10.8
DUP0301073A	03/01/07	280	280	840	--	< 0.1	1.6	< 0.1	NA	270	--	--	--
1349MW01CL	03/01/07	260	NA	899	--	0.3	1.4	< 0.1	NA	284	--	--	--
	03/16/06	310	310	850	0.54	< 0.1	1.7	< 0.1	NA	300	186.5	6.41	13.8
	03/21/05	270	270	690	0.3	< 0.1	2.1	< 0.1	NA	230	NR	NR	NR
	03/15/04	280	280	740	0.39	0.11	2.2	< 0.1	NA	250	NR	NR	NR
	12/02/03	310	310	690	1.1	0.14	2.2	< 0.05	NA	220	NR	NR	NR
	08/21/03	310	310	700	1.42	< 0.2	1.8	< 0.1	NA	220	NR	NR	NR
	06/10/03	380	380	740	1.29	< 0.2	2.1	< 0.1	NA	230	NR	NR	NR
	03/12/03	NA	NA	NA	1.59	NA	NA	NA	NA	NA	NR	NR	NR
	12/09/02	360	360	750	0.76	< 0.2	1.7	< 0.1	NA	210	NR	NR	NR
DUP1209021A	12/09/02	350	350	750	--	< 0.2	1.8	< 0.1	NA	220	NR	NR	NR
1349MW01CL	12/09/02	350	350	360	--	1	1.4 J-	< 0.05 UJ	1.4 J-	220	NR	NR	NR
	08/28/02	270	270	740	1.34	0.13	1.7	< 0.05	NA	240	NR	NR	NR
	05/30/02	320	320	810	1.37	0.091 J	1.7	< 0.05	NA	230	NR	NR	NR
	03/06/02	290	290	830	2.13	0.13	1.8	< 0.05	NA	250	NR	NR	NR
	11/28/01	310	310	820	1.36	0.13	1.8	< 0.05	NA	240	NR	NR	NR
	08/30/01	420	420	740	0.61	0.24	1.3	< 2.5	NA	180	NR	NR	NR
DUP0830013A	08/30/01	430	430	740	--	0.14	1.2	< 2.5	NA	180	NR	NR	NR
1349MW01CL	08/30/01	340	340	760	--	< 0.05	1.4 [2]	< 2.5	NA	210	NR	NR	NR
	05/10/01	330	330	760	1.45	0.19	1.4	< 0.05	NA	220	NR	NR	NR
	05/19/99	433	433	820	0.83	0.2	NA	NA	0.537	188	NR	NR	NR
	02/19/99	468	468	731	1.83	0.15	NA	NA	0.641	192	NR	NR	NR
	11/18/98	361	361	666	1.59	0.17	NA	NA	0.62	205	NR	NR	NR
	08/18/98	574	574	701	2.24	0.11	NA	NA	0.404	161	NR	NR	NR
	04/16/98	377	377	679	2.89	0.12	NA	NA	0.715	221	NR	NR	NR
	01/22/98	509	509	673	1	0.124	NA	NA	0.416	159	NR	NR	NR
	10/30/97	527	527	726	0.37	< 0.05	0.478	NA	0.368	158	NR	NR	NR
	07/31/97	466	466	777	0.5	NA	0.532	NA	0.617	192	NR	NR	NR
	05/01/97	489	489	768	1.17	NA	0.451	NA	NA	190	NR	NR	NR
	02/10/97	374	374	888	1.26	NA	0.635	NA	< 0.05	262	NR	NR	NR
	08/08/95	NA	NA	NA	NM	NA	NA	NA	NA	NA	NR	NR	NR
1349MW02	02/28/07	760	760	1,100	1.26	< 0.2	1.4	< 0.15	NA	160	69.7	5.79	11.8
	03/10/06	660	660	740	0.56	< 0.1	1.3	< 0.1	NA	78	-18.1	7.29	13.2
	08/31/05	710	710	770	0.8	< 0.1 UJ	1.2	< 0.1 UJ	NA	88	NR	NR	NR
	05/25/05	650	650	710	0.5	< 0.1	1.2	< 0.1	NA	68	NR	NR	NR
	03/21/05	630	630	860	0.1	< 0.1	1.3	< 0.1	NA	67	NR	NR	NR
	12/16/04	710	710	620	0.8	< 0.1	1.6	< 0.1	NA	66	NR	NR	NR
	08/12/04	700	700	600	0.4	< 0.1	1.5	< 0.1	NA	64	NR	NR	NR
	05/26/04	660	660	650	0.59	0.11	1.3	< 0.1	NA	64	NR	NR	NR
	03/15/04	630	630	670	0.44	< 0.1	1.4	< 0.1	NA	66	NR	NR	NR

Table A-5-1
Results of General Chemistry Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
1349MW02	12/02/03	720	720	600	0.6	< 0.1	1.6	< 0.05	NA	64	NR	NR	NR
	08/13/03	710	710	550	1.6	< 1	1.3 b,J-	< 0.5 UJ	NA	73	NR	NR	NR
	06/05/03	630	630	610	1.3	< 0.2	1.6	< 0.1	NA	62	NR	NR	NR
DUP0605032A	06/05/03	620	620	610	--	< 0.2	1.6	< 0.1	NA	62	NR	NR	NR
	03/12/03	NA	NA	NA	0.3	NA	NA	NA	NA	NA	NR	NR	NR
	12/04/02	660	660	580	1.8	< 0.2	1.7	< 0.1	NA	62	NR	NR	NR
DUP1204023A	12/04/02	670	670	560	--	< 0.2	1.7	< 0.1	NA	63	NR	NR	NR
	08/28/02	670	670	570	1	0.12	1.6	< 0.05	NA	68	NR	NR	NR
	05/30/02	680	680	630	0.7	0.12	1.6	< 0.05	NA	60	NR	NR	NR
	03/06/02	640	640	680	1.2	0.13	1.6	< 0.05	NA	58	NR	NR	NR
DUP0306022A	03/06/02	640	640	670	--	0.13	1.6	< 0.05	NA	59	NR	NR	NR
	11/28/01	670	670	580	2.25	0.091 J	1.7	< 0.05	NA	60	NR	NR	NR
DUP1128011A	11/28/01	680	680	570	--	0.1 J	1.8	< 0.05	NA	56	NR	NR	NR
	08/30/01	660	660	570	NM	0.11	1.7	< 0.05	NA	64	NR	NR	NR
DUP0830012A	08/30/01	660	660	550	--	0.11	1.7	< 0.05	NA	63	NR	NR	NR
1349MW02CL	08/30/01	660	660	550	--	< 0.1	1.5 [2]	< 0.05	NA	56	NR	NR	NR
	05/10/01	660	660	570	1.3	0.12	1.7	< 0.05	NA	62	NR	NR	NR
	05/19/99	680	680	724	0.51	< 0.1	NA	NA	1.58	76	NR	NR	NR
	02/19/99	706	706	766	0.6	< 0.1	NA	NA	1.29	80	NR	NR	NR
	11/18/98	694	694	690	0.71	< 0.1	NA	NA	1.22	69	NR	NR	NR
	08/18/98	688	688	637	0.39	< 0.1	NA	NA	1.24	69	NR	NR	NR
	04/16/98	629	629	555	0.9	< 0.1	NA	NA	1.23	64	NR	NR	NR
	01/22/98	689	689	586	1.34	< 0.1	NA	NA	1.12	60	NR	NR	NR
	10/30/97	700	700	653	0.33	< 0.05	1.3	NA	1.21	72	NR	NR	NR
	07/31/97	679	679	662	0.62	NA	1.29	NA	1.2	73	NR	NR	NR
	05/01/97	696	696	661	0.31	NA	1.18	NA	NA	61	NR	NR	NR
	02/10/97	548	548	501	0.5	NA	0.924	NA	1.3	52	NR	NR	NR
	08/08/95	NA	NA	NA	NM	NA	NA	NA	NA	NA	NR	NR	NR
1349MW03R	08/17/06	NA	NA	NA	NM	NA	NA	NA	NA	NA	NM	7.70	16.8
	03/16/06	440	440	860	1.1	< 0.1	6.3	< 0.1	NA	120	210	7.76	15.8
	11/30/05	NA	NA	NA	0.4	NA	NA	NA	NA	NA	NR	NR	NR
	08/31/05	390	390	170	0.4	< 0.1	5.9	< 0.05	NA	39	NR	NR	NR
	05/25/05	390	390	560	0.6	< 0.1	6.3	< 0.1	NA	84	NR	NR	NR
	03/21/05	350	350	960	7.7	< 0.1	5.4	< 0.1	NA	130	NR	NR	NR
	12/16/04	350	350	78	4.8	< 0.1	5.2	< 0.05	NA	29	NR	NR	NR
	08/10/04	350	350	68	3.94	< 0.1	4.6	< 0.05	NA	30	NR	NR	NR
	05/26/04	340	340	79	5.7	< 0.1	4.5	< 0.05	NA	31	NR	NR	NR

Table A-5-1
Results of General Chemistry Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
1349MW03R	03/09/04	380	380	78	7.08	< 0.1	4.5	< 0.05	NA	33	NR	NR	NR
	12/02/03	350	350	72	5.2	< 0.1	4.8	< 0.05	NA	22	NR	NR	NR
	08/13/03	360	360	78	4.8	< 0.5	4.5 b,J-	< 0.25 UJ	NA	32	NR	NR	NR
	06/09/03	330	330	130	2.6	0.37	4.7	0.1	NA	33	NR	NR	NR
1349MW100	06/06/07	470	470	910	0.26	0.3	< 0.1	< 0.1	NA	5	63.0	6.34	14.9
DUP0606073A	06/06/07	920	920	1,100	--	0.29	< 0.1	< 0.1	NA	5	--	--	--
1349MW100CL	06/06/07	972	972	840	--	< 1	< 0.5	< 2	NA	3.8	--	--	--
	03/01/07	1,000	1,000	820	0.81	0.32	< 0.05	< 0.1	NA	0.54	154.0	5.68	11.7
DUP0301073B	03/01/07	980	980	820	NA	0.26	< 0.05	< 0.1	NA	0.59	NA	NA	NA
	12/05/06	1,000	1,000	990	1.6	0.33	< 0.05	< 0.1	NA	< 0.5	-239	5.8	15
	08/16/06	850	850	810	0.81	0.2	< 0.05	< 0.1	NA	44	-118.2	6.40	16.8
	05/24/06	910	910	850	1.1	0.23	< 0.05	< 0.1	NA	60	-77.5	6.37	16.7
DUP0524063A	05/24/06	860	860	830	NA	0.23	< 0.05	< 0.1	NA	65	NR	NR	NR
1349MW100CL	05/24/06	820	NA	930	NA	< 1 U	< 0.02 U UJ	< 0.02 U	NA	55.9	NR	NR	NR
	03/16/06	930	930	760	0.33	0.24	< 0.05	< 0.1	NA	50	74.7	6.44	15.2
	11/30/05	940 J+	940	1,300	0.3	0.34	< 0.1	< 0.15	NA	< 1	NR	NR	NR
	08/31/05	860	860	1,500	0.3	0.31 J-	< 0.1	< 0.2 UJ	NA	8.7	NR	NR	NR
	05/25/05	910	910	810	0.3	0.2	< 0.05	< 0.1	NA	35	NR	NR	NR
	03/23/05	870	870	820	0.1	0.27	< 0.05	< 0.1	NA	37	NR	NR	NR
	12/16/04	940	940	1,200	0.2	0.28	< 0.05	< 0.25	NA	< 0.5	NR	NR	NR
	08/10/04	970	970	1,000	0.7	0.29	< 0.05	< 0.1	NA	0.51	NR	NR	NR
	05/27/04	940	940	1,100	0.55	0.28	< 0.05	< 0.1	NA	2	NR	NR	NR
	03/16/04	900	900	830	0.37	0.24	< 0.05	< 0.1	NA	10	NR	NR	NR
	12/02/03	890	890	1,200	1	0.24	< 0.1	< 0.1	NA	< 1	NR	NR	NR
	08/12/03	800	800	1,100	0.5	< 0.5	< 0.25	< 0.25	NA	< 2.5	NR	NR	NR
	06/09/03	860	860	890	1.8	< 0.5	< 0.25	< 0.25	NA	3.5	NR	NR	NR
	03/12/03	810	810	840	0.6	< 0.2	< 0.1	< 0.1	NA	7.7	NR	NR	NR
	12/10/02	660	660	1,300	0.9	< 0.2	< 0.1	< 0.1	NA	9.2	NR	NR	NR
1349MW101	03/01/07	NA	NA	NA	1.28	NA	NA	NA	NA	NA	145.0	7.50	10.8
	08/17/06	NA	NA	NA	NM	NA	NA	NA	NA	NA	NM	8.10	18.3
	03/16/06	330	330	180	1.11	< 0.1	2.8	< 0.05	NA	16	160.7	8.06	16
	08/31/05	280	280	190	0.7	< 0.1	2.5	< 0.05	NA	15	NR	NR	NR
	05/25/05	290	290	200	0.4	< 0.1	2.3	< 0.05	NA	15	NR	NR	NR
DUP0525052A	05/25/05	270	270	200	--	< 0.1	2.3	< 0.05	NA	15	NR	NR	NR
	03/21/05	280	280	210	0.2	< 0.1	3	< 0.05	NA	18	NR	NR	NR
	12/15/04	260	260	230	0.3	< 0.1	2.8	< 0.05	NA	17	NR	NR	NR
	03/09/04	260	260	210	3.52	0.13	3.5	< 0.05	NA	19	NR	NR	NR
	12/02/03	390	390	230	1.4	0.14	2.4	< 0.05	NA	19	NR	NR	NR
	08/19/03	280	280	260	1.7	0.25	2.5	< 0.05	NA	25	NR	NR	NR
	06/09/03	230	230	300	1.1	0.47	4.3	0.13	NA	38	NR	NR	NR

Table A-5-1
Results of General Chemistry Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
1349MW102	08/17/06	NA	NA	NA	NM	NA	NA	NA	NA	NA	NM	6.50	18.2
	03/07/06	470	470	240	0.15	0.25	2	< 0.05	NA	140	-6.9	6.72	14.2
DUP0307063C	03/07/06	500	500	240	NA	0.24	2	< 0.05	NA	130	-6.9	6.72	14.2
1349MW102CL	03/07/06	416	416	220	NA	< 1 U	2.33	0.025	NA	156	-6.9	6.72	14.2
	08/31/05	420	420	210	0.9	0.19	1.7	< 0.05	NA	73	NR	NR	NR
DUP0831052A	08/31/05	450	450	200	--	0.19	1.7	< 0.05	NA	71	NR	NR	NR
	05/25/05	390	390	150	0.5	0.15	2.8	< 0.05	NA	95	NR	NR	NR
	03/21/05	500	500	340	0.4	0.24	1.8	< 0.05	NA	79	NR	NR	NR
DUP0321053A	03/21/05	520	520	330	--	0.23	2	< 0.05	NA	79	NR	NR	NR
	12/16/04	630	630	450	1.08	0.25	0.71	< 0.05	NA	47	NR	NR	NR
	08/10/04	580	580	400	1.54	0.24	0.8	< 0.05	NA	42	NR	NR	NR
DUP0810042A	08/10/04	570	570	420	--	0.24	0.54	< 0.05	NA	41	NR	NR	NR
	05/27/04	600	600	410	1.1	0.27	0.52	< 0.05	NA	44	NR	NR	NR
DUP0527041A	05/27/04	630	630	400	--	0.26	0.74	< 0.05	NA	47	NR	NR	NR
1349MW102CL	05/27/04	620	620	88	--	0.29	0.6	< 0.05	0.6	18	NR	NR	NR
	03/10/04	540	540	470	0.5	0.27	0.4	< 0.05	NA	48	NR	NR	NR
DUP0310041A	03/10/04	550	550	470	--	0.27	0.4	< 0.05	NA	47	NR	NR	NR
1349MW102CL	03/10/04	530	530	450	--	0.28	0.45 J	< 0.05 UJ	0.45 HT-04,J	44	NR	NR	NR
	12/10/03	690	690	480	2	0.29	0.09	< 0.05	NA	43	NR	NR	NR
DUP1210031A	12/10/03	670	670	480	--	0.28	0.1	< 0.05	NA	43	NR	NR	NR
	08/12/03	740	740	430	1.1	0.47	0.17 b,J	< 0.1 UJ	NA	47	NR	NR	NR
	06/09/03	660	660	560	1.9	0.35	0.14	< 0.1	NA	68	NR	NR	NR
DUP0609032A	06/09/03	650	650	570	--	0.34	0.11	< 0.1	NA	70	NR	NR	NR
1349MW102CL	06/09/03	670	670	490	--	0.6	0.13	< 0.05	0.13	59	NR	NR	NR
1349MW103	02/28/07	900	900	1,100	1.22	0.28	< 0.1	< 0.15	NA	140	65.40	5.89	12.0
	03/09/06	670	670	930	0.19	0.29	< 0.05	< 0.1	NA	110	-26.1	7.27	13.6
	03/23/05	600	600	830	0.1	0.31	< 0.05	< 0.1	NA	95	NR	NR	NR
	03/15/04	490	490	830	0.52	0.42	< 0.05	< 0.1	NA	100	NR	NR	NR
	12/03/03	450	450	800	1.2	0.43	< 0.1	< 0.1	NA	97	NR	NR	NR
DUP1203032A	12/03/03	450	450	800	--	0.41	< 0.1	< 0.1	NA	110	NR	NR	NR
	08/12/03	400	400	790	2.4	0.54	< 0.1	< 0.1	NA	110	NR	NR	NR
	06/05/03	310	310	830	1.8	0.66	< 0.1	< 0.1	NA	110	NR	NR	NR
1349MW104	02/28/07	740	740	880	1.90	< 0.1	< 0.05	< 0.1	NA	84	67.5	6.2	10.8
	03/09/06	710	710	860	0.08	< 0.1	0.13	< 0.1	NA	74	-83.1	7.5	13
	03/23/05	680	680	850	0.6	< 0.1	0.07	< 0.1	NA	60	NR	NR	NR
	03/15/04	670	670	820	0.32	0.16	0.35	< 0.1	NA	62	NR	NR	NR
	12/02/03	740	740	790	1	< 0.2	0.12	< 0.1	NA	58	NR	NR	NR
	08/12/03	690	690	770	1.3	< 0.2	< 0.1	< 0.1	NA	55	NR	NR	NR
	06/06/03	600	600	870	3	0.21	0.17	< 0.1	NA	67	NR	NR	NR

Table A-5-1
Results of General Chemistry Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056	**Field**	**Field**	**Field**
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	**(mV)**	**pH units**	**C°**
1349MW105	02/28/07	250	250	510	0.89	0.32	0.06	< 0.05	NA	86	96.20	6.18	12.0
	03/20/06	300	300	450	0.19	0.29	< 0.05	< 0.05	NA	76	-151.1	0.02	13.5
	03/23/05	280	280	540	0.1	0.33	< 0.05	< 0.05	NA	130	NR	NR	NR
	03/15/04	240	240	590	0.31	0.41	< 0.05	< 0.1	NA	150	NR	NR	NR
	12/02/03	260	260	600	1.2	0.38	< 0.05	< 0.05	NA	150	NR	NR	NR
	08/12/03	280	280	600	3.1	0.48	< 0.1	< 0.1	NA	130	NR	NR	NR
	06/09/03	230	230	760	1.2	0.63	< 0.1	< 0.1	NA	130	NR	NR	NR

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in their respective quarterly report.
2 - The QC laboratory nitrate results shown have been converted to nitrate as nitrogen (nitrate-N) as other laboratory results are reported. The QC laboratory reported nitrate as NO_3 concentrations (nitrate-NO_3) which are 4.43 times higher than nitrate-N concentrations. Section 6.2.1.2 in the main report discusses this issue.
mg/L - milligrams per liter
mV - millivolts
NA - Not analyzed
NM - Not measured
NR - Not reported
ORP - oxidation reduction potential
^{o}C - degrees centigrade
"--" dissolved oxygen measurements were not taken for duplicate and quality control samples.
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-5-2
Results of TPH Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**770**	**880**	**1,200**
1349MW01	03/01/07	< 50	< 50	< 300
DUP0301073A	03/01/07	< 50	< 50	< 300
1349MW01CL	03/01/07	< 50	< 50	< 300
	03/16/06	< 50	79 HY	< 300
	03/21/05	< 50	< 50	< 300
	03/15/04	< 50	< 50	< 300
	12/02/03	< 50	< 50	< 300
	08/21/03	< 50	< 50	< 300
	06/10/03	< 50	< 50	< 300
	03/12/03	NA	< 50	< 300
	12/09/02	< 50	< 50	< 300
DUP1209021A	12/09/02	< 50	< 50	< 300
1349MW01CL	12/09/02	< 50	< 50	< 250
	08/28/02	< 50	< 50	< 300
	05/30/02	< 50	< 50	< 300
	03/06/02	< 50	< 50	< 300
	11/28/01	< 50	< 50	< 300
	08/30/01	< 50	< 50 [3]	< 300 [3]
DUP0830013A	08/30/01	< 50	57 [3] Y,NJ	< 300 [3]
1349MW01CL	08/30/01	< 50	< 50	< 300
	05/10/01	< 50	< 50	< 300
	05/19/99	NA	< 50	< 300
	02/19/99	NA	< 50	< 300
	11/18/98	NA	< 50	< 300
	08/18/98	NA	< 50 (U15)	< 300
	04/16/98	NA	< 50	< 300
	01/22/98	NA	< 50	< 300
	10/30/97	NA	< 50	< 300
	07/31/97	NA	< 50	< 300
	05/01/97	NA	< 50	< 300
	02/10/97	NA	< 50	< 300
	11/25/96	NA	< 50	< 300
	09/12/96	NA	< 50	< 300
	08/08/95	NA	< 50	NA
1349MW02	02/28/07	< 50	< 50	< 300
	03/10/06	< 50	< 50	< 300
	08/31/05	< 50	< 50	< 300
	05/25/05	< 50	< 50	< 300
	03/21/05	< 50	< 50	< 300
	12/16/04	< 50	< 50	< 300
	08/12/04	< 50	< 50	< 300
	05/26/04	< 50	< 50	< 300
	03/15/04	< 50	< 50	< 300
	12/02/03	< 50	< 50	< 300
	08/13/03	< 50	290 HY	< 300
	06/05/03	< 50	< 50	< 300
DUP0605032A	06/05/03	< 50	< 50	< 300
	03/12/03	NA	< 50	< 300

Table A-5-2
Results of TPH Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**770**	**880**	**1,200**
1349MW02	12/04/02	< 50	< 50	< 300
DUP1204023A	12/04/02	< 50	< 50	< 300
	08/28/02	< 50	< 50	< 300
	05/30/02	< 50	< 50	< 300
	03/06/02	< 50	< 50	< 300
DUP0306022A	03/06/02	< 50	< 50	< 300
	11/28/01	< 50	< 50	< 300
DUP1128011A	11/28/01	< 50	< 50	< 300
	08/30/01	< 50	57 [3] Y,NJ	< 300 [3]
DUP0830012A	08/30/01	< 50	67 [3] Y,NJ	< 300 [3]
1349MW02CL	08/30/01	< 50	< 50	< 300
1349MW02	05/10/01	< 50	< 50	< 300
	05/19/99	NA	< 50	< 300
	02/19/99	NA	< 50	< 300
	11/18/98	NA	< 50	< 300
	08/18/98	NA	< 50 (U15)	< 300
	04/16/98	NA	< 50	< 300
	01/22/98	NA	< 50	< 300
	10/30/97	NA	< 50	< 300
	07/31/97	NA	58 (R32)	< 300
	05/01/97	NA	< 50	< 300
	02/10/97	NA	< 50	< 300
	11/25/96	NA	< 50	< 300
	09/12/96	NA	< 50	< 300
	08/08/95	NA	< 50	NA
1349MW03R	03/16/06	< 50	< 50	< 300
	08/31/05	< 50	< 50	< 300
	05/25/05	< 50	< 50	< 300
	03/21/05	< 50	< 50	< 300
	12/16/04	< 50	< 50	< 300
	08/10/04	< 50	< 50	< 300
	05/26/04	< 50	< 50	< 300
	03/09/04	< 50	81 HY	770 Z
	12/02/03	< 50	< 50	< 300
	08/13/03	< 50	< 50	< 300
	06/09/03	< 50	< 50	< 300
1349MW100	06/06/07	**5,000 HY**	**13,000**	< 300
DUP0606073A	06/06/07	**1,500 HY**	**20,000**	360 LY
1349MW100CL	06/06/07	580 H	**29,000 Y**	700 L
	03/01/07	**1,200 HY**	**15,000**	< 300
DUP0301073B	03/01/07	620 HY	**15,000**	670 LY
	12/05/06	**1,200 H**	**13,000**	< 300
	08/16/06	**820 HY**	**42,000**	< 1,500
	05/24/06	690 HY	**3,600**	< 300
DUP0524063A	05/24/06	490 HY	**5,200**	< 300
1349MW100CL	05/24/06	350	**5,400**	< 2,100 U
	03/16/06	**1,300 HY**	**6,900**	< 300
	11/30/05	450 HY	**26,000**	< 900
	08/31/05	630 HY	**20,000**	< 300

Table A-5-2
Results of TPH Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**770**	**880**	**1,200**
1349MW100	05/25/05	690 H	**5,100**	< 300
	03/23/05	**960 HY**	**24,000**	< 600
	12/16/04	**1,400 HY J+**	**6,300**	< 300
	08/10/04	**3,000 HY**	**5,000**	< 300
	05/27/04	**920 HY**	**3,600**	< 300
	03/16/04	**930 H**	**31,000**	< 600
	12/02/03	**1,000 HY,J+**	**1,100 LY**	< 300
	08/12/03	700 YH	**9,000**	< 300
	06/09/03	**1,200 YH**	**5,100**	< 300
	03/12/03	610 YH	**1,800**	< 300
	12/10/02	230 Y	**1,500**	< 300
1349MW101	03/16/06	< 50	< 50	< 300
	08/31/05	< 50	< 50	< 300
	05/25/05	< 50	< 50	< 300
DUP0525052A	05/25/05	< 50	< 50	< 300
	03/21/05	< 50	< 50	< 300
	12/15/04	< 50	< 50	< 300
	03/09/04	< 50	< 50	< 300
	12/02/03	< 50	< 50	< 300
	08/19/03	< 50	< 50	< 300
	06/09/03	< 50	< 50	< 300
1349MW102	03/07/06	< 50	< 50	< 300
DUP0307063C	03/07/06	< 50	< 50	< 300
1349MW102CL	03/07/06	< 50 U	60 J+	< 300 U
	08/31/05	< 50	< 50	< 300
DUP0831052A	08/31/05	< 50	< 50	< 300
	05/25/05	< 50	< 50	< 300
	03/21/05	< 50	< 50	< 300
DUP0321053A	03/21/05	< 50	< 50	< 300
	12/16/04	< 50	< 50	< 300
	08/10/04	< 50	< 50	< 300
DUP0810042A	08/10/04	< 50	< 50	< 300
	05/27/04	< 50	51 Y	< 300
DUP0527041A	05/27/04	< 50	< 50	< 300
1349MW102CL	05/27/04	< 50	54	< 240
	03/10/04	< 50	< 50	< 300
DUP0310041A	03/10/04	< 50	< 50	< 300
1349MW102CL	03/10/04	< 50	NA	NA
	12/10/03	< 50	< 50	< 300
DUP1210031A	12/10/03	< 50	< 50	< 300
	08/12/03	< 50	< 50	< 300
	06/09/03	< 50	< 50	< 300
DUP0609032A	06/09/03	< 50	< 50	< 300
1349MW102CL	06/09/03	< 50	< 50	< 250

Table A-5-2
Results of TPH Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**770**	**880**	**1,200**
1349MW103	02/28/07	< 50	< 50	< 300
	03/09/06	< 50	54 Y	< 300
	03/23/05	< 50	< 50	< 300
	03/15/04	< 50	< 50	< 300
	12/03/03	< 50	< 50	< 300
DUP1203032A	12/03/03	< 50	< 50	< 300
	08/12/03	< 50	< 50	< 300
	06/05/03	< 50	< 50	< 300
1349MW104	02/28/07	< 50	< 50	< 300
	03/09/06	< 50	55 Y	< 300
	03/23/05	< 50	< 50	< 300
	03/15/04	< 50	< 50	< 300
	12/02/03	< 50	< 50	< 300
	08/12/03	< 50	< 50	< 300
	06/06/03	< 50	< 50	< 300
1349MW105	02/28/07	< 50	< 50	< 300
	03/20/06	< 50	< 50	< 300
	03/23/05	< 50	< 50	< 300
	03/15/04	< 50	< 50	< 300
	12/02/03	< 50	< 50	< 300
	08/12/03	< 50	< 50	< 300
	06/09/03	< 50	< 50	< 300

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Groundwater cleanup levels were taken from the *Final Corrective Action Plan Building 1349 Study Area, Presidio of San Francisco, California* (BBL, 2006).
3 - TPH analysis was not run using the silica gel cleanup method 3630A, although it was marked on the chain-of-custody.
Concentrations in **bold** indicate an exceedance of applicable cleanup levels (BBL, 2006).
µg/L - micrograms per liter
NA - Not analyzed
TPH - Total petroleum hydrocarbons
Y - Sample exhibits fuel pattern that does not resemble the standard.
CL suffix denotes a quality control duplicate sample was sent to control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-5-3
Results of VOC Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	1,2-DCA	2-Butanone	Acetone	Benzene	Bromo-form	Carbon Disulfide	Dibromo-chloro-methane	Ethyl-benzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		--	--	--	**1**	--	--	--	**700**	--	**150**	**1,750**	--
1349MW01	03/01/07	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
DUP0301073A	03/01/07	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
1349MW01CL	03/01/07	< 0.5	< 10 R	< 10 R	< 0.5	< 1 UJ	< 5	< 0.5	< 0.5	< 2	< 0.5	< 1	ND
	03/16/06	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/21/05	< 0.5	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/15/04	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/21/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/10/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/12/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/09/02	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	ND
DUP1209021A	12/09/02	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	ND
1349MW01CL	12/09/02	< 0.5	< 5	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/28/02	< 0.5	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/30/02	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/06/02	< 0.5	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/28/01	< 0.5	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/30/01	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0830013A	08/30/01	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
1349MW01CL	08/30/01	< 1	< 50	< 50	< 0.5	< 1	< 0.5	< 1	< 0.5	< 5	< 0.5	< 0.5	ND
	05/10/01	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5 UJ	< 0.5 UJ	ND
	02/19/99	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	11/18/98	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	08/18/98	NA	NA	NA	< 0.5 U18	NA	NA	NA	< 0.5 U18	NA	< 0.5 U18	< 0.5 U18	NA
	04/16/98	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	01/22/98	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	10/30/97	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	07/31/97	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	05/01/97	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	02/10/97	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	11/25/96	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	09/12/96	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	0.54	< 0.5	NA
	08/08/95	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA

Table A-5-3
Results of VOC Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	1,2-DCA	2-Butanone	Acetone	Benzene	Bromo-form	Carbon Disulfide	Dibromo-chloro-methane	Ethyl-benzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		--	--	--	**1**	--	--	--	**700**	--	**150**	**1,750**	--
1349MW02	02/28/07	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/10/06	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	08/31/05	< 0.5	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	05/25/05	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/21/05	< 0.5	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/15/04	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/05/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0605032A	06/05/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/12/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/02	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP1204023A	12/04/02	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/28/02	< 0.5	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/30/02	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/06/02	< 0.5	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0306022A	03/06/02	< 0.5	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/28/01	< 0.5	< 10	< 10 UJ	0.8	< 1	< 0.5	< 0.5	< 0.5	< 0.5	1.5	< 0.5	ND
DUP1128011A	11/28/01	< 0.5	< 10	< 10	**1.1**	< 1	< 0.5	< 0.5	< 0.5	< 0.5	2.3	0.7	ND
	08/30/01	< 0.5	< 10	< 10	< 0.5	< 1	1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0830012A	08/30/01	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
1349MW02CL	08/30/01	< 1	< 50	< 50	< 0.5	< 1	< 0.5	< 1	< 0.5	< 5	< 0.5	< 0.5	ND
	05/10/01	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/19/99	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	11/18/98	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	08/18/98	NA	NA	NA	< 0.5 U18	NA	NA	NA	< 0.5 U18	NA	< 0.5 U18	< 0.5 U18	NA
	04/16/98	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	01/22/98	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	10/30/97	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	07/31/97	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA

Table A-5-3
Results of VOC Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	1,2-DCA	2-Butanone	Acetone	Benzene	Bromo-form	Carbon Disulfide	Dibromo-chloro-methane	Ethyl-benzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		--	--	--	**1**	--	--	--	**700**	--	**150**	**1,750**	--
1349MW02	05/01/97	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	02/10/97	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	11/25/96	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	09/12/96	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	08/08/95	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
1349MW03R	03/16/06	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	08/31/05	< 0.5	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/21/05	< 0.5	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/09/04	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/09/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
1349MW100	06/06/07	< 0.5	< 10	< 10 UJ	**25**	< 1	< 0.5	< 0.5	< 0.5	< 0.5	0.5	0.8	ND
DUP0606073A	06/06/07	< 0.5	< 10	< 10	**24**	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.7	ND
1349MW100CL	06/06/07	< 0.87 i	< 10 R	< 10 R	**21 J+**	< 1	< 5	< 0.5	< 0.5	< 2	< 0.5	< 1	ND
	03/01/07	< 0.5	< 10	< 10	**29**	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.4	ND
DUP0301073B	03/01/07	< 0.5	< 10	< 10	**28**	< 1	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	1.5	ND
	12/05/06	< 0.5	< 10	< 10	**18**	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.3	ND
	08/16/06	< 0.5	< 10	< 10	**23**	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	05/24/06	< 0.5	< 10	< 10	**29**	< 1	0.7	< 0.5	0.8	< 0.5	< 0.5	3.8	ND
DUP0524063A	05/24/06	< 0.5	< 10	< 10	**28**	< 1	0.8	< 0.5	0.8	< 0.5	< 0.5	3.7	ND
1349MW100CL	05/24/06	< 0.5 U	< 10 U	< 10 U	**30**	< 1 U	< 5 U	< 0.5 U	0.9	< 2 U	< 0.5 U	4.2	ND
	03/16/06	< 0.5	< 10	< 10	**22**	< 1	< 0.5	< 0.5	0.8	< 0.5	< 0.5	0.8	ND
	11/30/05	< 0.5	< 10	< 10 UJ	**18**	< 1	< 0.5	< 0.5	0.6	< 0.5	< 0.5	1.5	ND
	08/31/05	< 0.5	< 10	< 10	**20**	< 1	< 0.5	< 0.5	0.6	< 0.5	< 0.5	< 1	ND
	05/25/05	1.5	< 10	< 10	**39**	< 1	< 0.5	< 0.5	0.9	< 0.5	< 0.5	2	ND
	03/23/05	< 0.5	< 10 UJ	< 10 UJ	**27**	< 1	< 0.5	< 0.5	1.5	< 0.5	< 0.5	2.9	ND
	03/16/04	< 0.5	< 10	< 10	**24**	< 1	< 0.5	< 0.5	2.5	< 0.5	< 0.5	5.5	ND
	12/02/03	< 0.5	< 10	< 10	**7.8**	< 1	< 0.5	< 0.5	2	0.5	0.5	3.8	ND
	08/12/03	< 0.5	< 10	< 10	**9.1**	< 1	< 0.5	< 0.5	1.1	< 0.5	0.5	3	ND
	06/09/03	< 0.5	< 10	< 10	**27**	< 1	1.3	< 0.5	7	< 0.5	0.7	12	ND
	03/12/03	< 0.5	< 10	< 10	**25**	< 1	< 0.5 UJ	< 0.5	5	< 0.5	0.6	9.8	ND
	12/10/02	< 0.5	< 10	< 10	**2.6**	< 1	< 0.5	< 0.5	1.3	< 0.5 UJ	0.8	3	ND

Table A-5-3
Results of VOC Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	1,2-DCA	2-Butanone	Acetone	Benzene	Bromo-form	Carbon Disulfide	Dibromo-chloro-methane	Ethyl-benzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		--	--	--	**1**	--	--	--	**700**	--	**150**	**1,750**	--
1349MW101	03/16/06	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	08/31/05	< 0.5	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/21/05	< 0.5	< 10 UJ	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/09/04	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/19/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/09/03	< 0.5	< 10	< 10	< 0.5	0.6 J	< 0.5	0.6	< 0.5	< 0.5	< 0.5	< 0.5	ND
1349MW102	03/07/06	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
DUP0307063C	03/07/06	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
1349MW102CL	03/07/06	< 0.5 U	< 10 U	< 10 U	< 0.5 U	< 1 U	< 5 U	< 0.5 U	< 0.5 U	< 2 U	< 0.5 U	< 1 U	ND
	08/31/05	< 0.5	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
DUP0831052A	08/31/05	< 0.5	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/21/05	< 0.5	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
DUP0321053A	03/21/05	< 0.5	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/10/04	< 0.5	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0310041A	03/10/04	< 0.5	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
1349MW102CL	03/10/04	< 0.5	< 5	< 10 R	< 0.5	< 0.5	< 5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/10/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP1210031A	12/10/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/12/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/09/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0609032A	06/09/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
1349MW102CL	06/09/03	< 0.5	< 5	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
1349MW103	02/28/07	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/09/06	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/23/05	< 0.5	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/15/04	< 0.5	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/03/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP1203032A	12/03/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/12/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/05/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND

Table A-5-3
Results of VOC Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	1,2-DCA	2-Butanone	Acetone	Benzene	Bromo-form	Carbon Disulfide	Dibromo-chloro-methane	Ethyl-benzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		--	--	--	**1**	--	--	--	**700**	--	**150**	**1,750**	--
1349MW104	02/28/07	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/09/06	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/23/05	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/15/04	< 0.5	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/12/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/06/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
1349MW105	02/28/07	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/20/06	< 0.5	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/23/05	< 0.5	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/15/04	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/12/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/09/03	< 0.5	< 10	12	< 0.5	< 1	1.9	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND

Notes

1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.

2 - Groundwater cleanup levels were taken from the *Final Corrective Action Plan Building 1349 Study Area, Presidio of San Francisco, California* (BBL, 2006).

Concentrations in **bold** indicate an exceedance of applicable cleanup levels.
"--" cleanup level not established
µg/L - micrograms per liter
ND - Not detected
NA - Not analyzed
NS - Not sampled
VOC - Volatile organic compound
MTBE - Methyl tert-butyl ether
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-5-4
Results of OCP and PCB Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	alpha-Chlordane	beta-BHC	delta-BHC	Dieldrin	Endosulfan II	Endrin	gamma-BHC	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Methoxy-chlor	All Other OCPs/PCBs
	Analytical Method[1]	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**0.15**	**0.10**	**0.10**	**0.002**	**0.1**	**0.3**	**--**	**0.5**	**42**	**2**	**0.2**	**0.1**	**0.01**	**0.01**	**40**	**--**
1349MW01	03/01/07	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / NA
DUP0301073A	03/01/07	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / NA
1349MW01CL	03/01/07	< 0.01	< 0.01	< 0.01	< 0.01 UJ	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	ND / NA
	03/16/06	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / NA
	03/21/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.05	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/15/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/02/03	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND
	08/21/03	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	06/10/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/12/03	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
	12/09/02	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	< 0.049	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	< 0.049	< 0.49	ND
DUP1209021A	12/09/02	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	< 0.049	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	< 0.049	< 0.49	ND
1349MW01CL	12/09/02	< 0.1	< 0.1	< 0.1	< 0.05 UJ	NA	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.5	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
	08/28/02	< 0.097	< 0.097	< 0.097	< 0.049 UJ	< 0.049	< 0.049 UJ	< 0.049 UJ	< 0.097	< 0.097	< 0.097	< 0.049 UJ	< 0.049	< 0.049 UJ	< 0.049 UJ	< 0.49	ND
	05/30/02	< 0.098	< 0.098	< 0.098	< 0.049 UJ	< 0.049	< 0.049 UJ	< 0.049 UJ	< 0.098	< 0.098	< 0.098	< 0.049 UJ	< 0.049	< 0.049 UJ	< 0.049 UJ	< 0.49	ND
	03/06/02	< 0.098	< 0.098	< 0.098 UJ	< 0.049 UJ	< 0.049	< 0.049 UJ	< 0.049 UJ	< 0.098	< 0.098	< 0.098	< 0.049 UJ	< 0.049	< 0.049 UJ	< 0.049 UJ	< 0.49	ND
	11/28/01	< 0.096	< 0.096	< 0.096	< 0.048	< 0.048	< 0.048	< 0.048	< 0.096	< 0.096	< 0.096	< 0.048	< 0.048	< 0.048	< 0.048	< 0.48	ND
	08/30/01	< 0.097 UJ	< 0.097 UJ	< 0.097 UJ	< 0.049	< 0.049 UJ	< 0.049	< 0.049	< 0.097 UJ	< 0.097 UJ	< 0.097 UJ	< 0.049	< 0.049 UJ	< 0.049	< 0.049	< 0.49 UJ	ND
DUP0830013A	08/30/01	< 0.098	< 0.098	< 0.098	< 0.049	< 0.049	< 0.049	< 0.049	< 0.098	< 0.098	< 0.098	< 0.049	< 0.049	< 0.049	< 0.049	< 0.49	ND
1349MW01CL	08/30/01	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	ND
	05/10/01	< 0.094 UJ	< 0.094 UJ	< 0.094 UJ	< 0.047	< 0.047 UJ	< 0.047	< 0.047	< 0.094 UJ	< 0.094 UJ	< 0.094 UJ	< 0.047	< 0.047 UJ	< 0.047	< 0.047	< 0.47 UJ	ND
1349MW02	02/28/07	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/10/06	< 0.1	< 0.1	< 0.1 # UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/31/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	05/25/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/21/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.05	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/16/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/12/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	05/26/04	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/15/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/02/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/13/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	06/05/03	< 0.09	< 0.09	< 0.09 UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
DUP0605032A	06/05/03	< 0.09	< 0.09	< 0.09 UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/12/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/04/02	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	< 0.049	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	< 0.049	< 0.49	ND
DUP1204023A	12/04/02	< 0.094 UJ	< 0.094 UJ	< 0.094 UJ	< 0.047	< 0.047 UJ	< 0.047	< 0.047	< 0.094 UJ	< 0.094 UJ	< 0.094 UJ	< 0.047	< 0.047 UJ	< 0.047	< 0.047	< 0.47 UJ	ND
	08/28/02	< 0.095	< 0.095	< 0.095	< 0.048	< 0.048	< 0.048	< 0.048	< 0.095	< 0.095	< 0.095	< 0.048	< 0.048	< 0.048	< 0.048	< 0.48	ND
	05/30/02	< 0.099	< 0.099	< 0.099	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.099	< 0.099	< 0.099	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND

Table A-5-4
Results of OCP and PCB Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	alpha-Chlordane	beta-BHC	delta-BHC	Dieldrin	Endosulfan II	Endrin	gamma-BHC	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Methoxy-chlor	All Other OCPs/PCBs
	Analytical Method[1]	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**0.15**	**0.10**	**0.10**	**0.002**	**0.1**	**0.3**	**--**	**0.5**	**42**	**2**	**0.2**	**0.1**	**0.01**	**0.01**	**40**	**--**
1349MW02	03/06/02	< 0.095	< 0.095	< 0.095 UJ	< 0.048	< 0.048	< 0.048	< 0.048	< 0.095	< 0.095	< 0.095	< 0.048 UJ	< 0.048	< 0.048	< 0.048	< 0.48	ND
DUP0306022A	03/06/02	< 0.095	< 0.095	< 0.095 UJ	< 0.048 UJ	< 0.048	< 0.048 UJ	< 0.048 UJ	< 0.095	< 0.095	< 0.095	< 0.048 UJ	< 0.048	< 0.048 UJ	< 0.048 UJ	< 0.48	ND
	11/28/01	< 0.096	< 0.096	< 0.096	< 0.048	< 0.048	< 0.048	< 0.048	< 0.096	< 0.096	< 0.096	< 0.048	< 0.048	< 0.048	< 0.048	< 0.48	ND
DUP1128011A	11/28/01	< 0.096 UJ	< 0.096 UJ	< 0.096 UJ	< 0.048	< 0.048 UJ	< 0.048	< 0.048	< 0.096 UJ	< 0.096 UJ	< 0.096 UJ	< 0.048	< 0.048 UJ	< 0.048	< 0.048	< 0.48 UJ	ND
	08/30/01	< 0.098 UJ	< 0.098 UJ	< 0.098 UJ	< 0.049	< 0.049 UJ	< 0.049	< 0.049	< 0.098 UJ	< 0.098 UJ	< 0.098 UJ	< 0.049	< 0.049 UJ	< 0.049	< 0.049	< 0.49 UJ	ND
DUP0830012A	08/30/01	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	< 0.049	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	< 0.049	< 0.49	ND
1349MW02CL	08/30/01	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	ND
	05/10/01	< 0.094	< 0.094	< 0.094	< 0.047	< 0.047	< 0.047	< 0.047	< 0.094	< 0.094	< 0.094	< 0.047	< 0.047	< 0.047	< 0.047	< 0.47	ND
1349MW03R	08/17/06	< 0.09	< 0.09	< 0.09 # UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5 # UJ	ND / NA
	03/16/06	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/31/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	05/25/05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/21/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.05	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/16/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/10/04	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	05/26/04	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
	03/09/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	0.08 C	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/02/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/13/03	< 0.09	< 0.09	< 0.09	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.09	< 0.09	< 0.09	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
	06/09/03	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND
1349MW100	06/06/07	< 0.9	< 0.9	< 0.9	< 0.5	< 0.5	< 0.5	< 0.5	< 0.9	< 0.9	< 0.9	< 0.5	< 0.5	**0.8 C**	< 0.5	< 4.7	ND / NA
DUP0606073A	06/06/07	< 0.9	< 0.9	< 0.9	< 0.5	< 0.5	< 0.5	< 0.5	< 0.9	< 0.9	< 0.9	< 0.5	< 0.5	**0.9 C**	< 0.5	< 4.7	ND / NA
1349MW100CL	06/06/07	< 0.096	< 0.096	< 0.3 i	< 0.096 UJ	**0.17 D**	< 0.096	< 0.096	< 0.096	< 0.31 i	< 0.096	< 0.096	< 0.096	< 0.096	< 0.096	0.15 PD	ND / NA
	03/01/07	< 0.1	< 0.1	< 0.1	< 0.05 UJ	0.08	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	**1.7 J-**	< 0.05	**1 C J-**	< 0.05 UJ	< 0.5	ND
DUP0301073B	03/01/07	< 0.1	< 0.1	< 0.1	< 0.05 UJ	0.06	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	**1.7 J-**	**0.5 C**	**0.9 C J-**	< 0.05 UJ	< 0.5	ND
	12/05/06	< 0.2	**0.3**	< 0.2 # UJ	< 0.1 UJ	< 0.1	< 0.1 UJ	< 0.1 UJ	0.3	< 0.2	< 0.2	< 0.2 UJ	< 0.1	**0.2 J-**	< 0.1 UJ	< 1	ND / NA
	08/16/06	< 0.3 UJ	< 0.3 UJ	**0.4 J-**	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.3 UJ	< 0.3 UJ	0.7 C J-	**2.4 J-**	< 0.1 UJ	**2.2 C J-**	**0.4 C J-**	< 1.4 UJ	ND
	05/24/06	< 0.5	< 0.5	**0.8 C**	< 0.2	< 0.2	< 0.5 # UJ	< 0.2 # UJ	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 0.2	**0.4**	< 2.4	ND
DUP0524063A	05/24/06	< 0.5	< 0.5	**0.8**	**0.3 C**	**0.8**	< 0.5 # UJ	< 0.2 # UJ	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 0.2	**0.3**	< 2.4	ND
1349MW100CL	05/24/06	< 0.1 U UJ	< 0.1 U UJ	< 0.1 U UJ	< 0.05 U	< 0.5 U UJ	< 0.05 U	< 0.05 U	< 0.1 U UJ	< 0.1 U UJ	< 0.1 U UJ	0.082	NA	< 0.05 U	< 0.05 U	< 0.5 U UJ	ND
	03/16/06	**0.9 C J-**	< 0.1 UJ	< 0.1 UJ	**0.3**	**0.9 C J-**	< 0.05	0.1 C	0.4 C J-	< 0.1 UJ	< 0.1 UJ	< 0.05	**0.7 C J-**	**0.8 C**	**0.2**	< 0.5 UJ	ND
	11/30/05	< 0.5	< 0.5	< 0.5	< 0.2	**0.3 C**	< 0.2	< 0.2	< 0.5	< 0.5	< 0.5	**1.3**	< 0.2	< 0.2	< 0.2	< 2.4	ND
	08/31/05	< 0.1	< 0.1	**1 Cb J**	< 0.05	**0.2 C**	< 0.5	0.08 b J	0.1	0.8 C	< 0.1	**8.5 Cb J**	**0.2**	< 0.05	**0.2 C**	< 0.5	ND
	05/25/05	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 0.5	< 1	< 1	< 1	**4.5 #C**	< 0.5	< 0.5	< 0.5	< 4.8	ND
	03/23/05	< 1	< 1	< 1 # UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 5	ND
	12/16/04	< 1	< 1 #	< 1 # UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 4.8 # UJ	ND
	08/10/04	**0.9 C**	**1.1 C**	**0.4**	**0.2**	0.1	< 0.05	0.1 C	0.5 C	< 0.1	0.1 C	**3.7 C**	< 0.05	**1.6 C**	< 0.05	< 0.5	ND
	05/27/04	< 0.2 UJ	< 0.2 UJ	**0.5 C, J-**	< 0.09	**0.2 C, J-**	< 0.09	0.2 C	0.3 J-	0.7 C, J-	0.2 J-	< 0.2	0.1 J-	**0.8 C**	**0.2 C**	< 0.9 UJ	ND
	03/16/04	< 0.09 UJ	**0.7 Cb, J-**	**0.7 C, J-**	< 0.05 UJ	**0.2 J-**	< 0.05 UJ	0.08 b, J-	0.3 J-	0.6 J-	0.2 J-	< 0.05 UJ	**0.3 C, J-**	**0.8 Cb, J-**	**0.2 C, J-**	1.2 b, J-	ND
	12/02/03	**0.5 C**	**0.7 C**	**0.5 Cb, J-**	< 0.05	< 0.05	**3.9 C**	0.06 C	0.1	< 0.09	< 0.09	**2.3 C**	< 0.05	< 0.05	**0.2 C**	< 0.5	ND

Table A-5-4
Results of OCP and PCB Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	alpha-Chlordane	beta-BHC	delta-BHC	Dieldrin	Endosulfan II	Endrin	gamma-BHC	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Methoxy-chlor	All Other OCPs/PCBs
	Analytical Method[1]	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**0.15**	**0.10**	**0.10**	**0.002**	**0.1**	**0.3**	**--**	**0.5**	**42**	**2**	**0.2**	**0.1**	**0.01**	**0.01**	**40**	**--**
1349MW100	08/12/03	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	**0.2 C**	0.1 J-	< 0.2	< 0.05	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	**4.6 C**	0.07 J-	**2.6 Cb,J-**	**0.1**	< 0.5 UJ	ND
	06/09/03	**0.3 C, J-**	**0.3 C, J-**	< 0.09 UJ	**0.07 C**	< 0.05 UJ	< 0.05	0.2 C	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	**4.5 C**	**0.4 C, J-**	< 0.05	< 0.05	< 0.5 UJ	ND
	03/12/03	**0.3 Cb, J+**	< 0.1 UJ	**0.2 C, J-**	**0.3 C, J+**	**0.2 C, J-**	**6.1 C, J+**	0.1 C, J+	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	**2.2 C, J+**	**0.2 C, J-**	**0.8 C, J+**	**0.3 C J+**	< 0.5 UJ	ND
	12/10/02	< 0.097	< 0.097	< 0.097	**0.11 C,J-**	< 0.049	**1.5 C, J-**	< 0.049 UJ	< 0.097	< 0.097	< 0.097	**0.43 C, J-**	< 0.049	**0.83 C, J-**	< 0.049 UJ	< 0.49	ND
1349MW101	08/17/06	< 0.09	< 0.09	< 0.09 # UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5 # UJ	ND / NA
	03/16/06	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/31/05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	05/25/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
DUP0525052A	05/25/05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/21/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.05	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/15/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/09/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	0.06 C	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/02/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/19/03	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	06/09/03	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.09 UJ	ND
1349MW102	08/17/06	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND / NA
	03/07/06	< 0.1	< 0.1	< 0.1 # UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
DUP0307063C	03/07/06	< 0.1	< 0.1	< 0.1 # UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
1349MW102CL	03/07/06	< 0.1 U R	< 0.1 U R	< 0.1 U R	< 0.05 U UJ	< 0.5 U R	< 0.05 U UJ	< 0.05 U UJ	< 0.1 U R	< 0.1 U R	< 0.1 U R	< 0.05 U UJ	NA	< 0.05 U UJ	< 0.05 U UJ	< 0.5 U R	ND
	08/31/05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
DUP0831052A	08/31/05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	05/25/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/21/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.05	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
DUP0321053A	03/21/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.05	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/10/04	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
DUP0310041A	03/10/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
1349MW102CL	03/10/04	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05 UJ	NA	< 0.05 UJ	< 0.05 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05 UJ	< 0.5 UJ	< 0.05 UJ	< 0.05 UJ	< 0.5 UJ	ND
	12/16/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/10/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
DUP0527041A	08/10/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	05/27/04	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
DUP0527041A	05/27/04	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
1349MW102CL	05/27/04	< 0.098	< 0.098	< 0.098	< 0.049	NA	< 0.049	< 0.049	< 0.098	< 0.098	< 0.098	< 0.049	< 0.49	< 0.049	< 0.049	< 0.49	ND
	12/10/03	< 0.1	< 0.1	< 0.1 b,UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	0.07 C,J+	< 0.05	< 0.05 b,UJ	< 0.05	< 0.5 b,UJ	ND
DUP1210031A	12/10/03	< 0.09	< 0.09	< 0.09 b,UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	0.07 J+	< 0.05	< 0.05 b,UJ	< 0.05	< 0.5 b,UJ	ND
	08/12/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05 UJ	< 0.05	< 0.5	ND
	06/09/03	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND
DUP0609032A	06/09/03	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND
1349MW102CL	06/09/03	< 0.095 UJ	< 0.095 UJ	< 0.095 UJ	< 0.048 UJ	NA	< 0.048 UJ	< 0.048 UJ	< 0.095 UJ	< 0.095 UJ	< 0.095 UJ	< 0.048 UJ	< 0.48 UJ	< 0.048 UJ	< 0.048 UJ	< 0.48 UJ	ND

Table A-5-4
Results of OCP and PCB Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	alpha-Chlordane	beta-BHC	delta-BHC	Dieldrin	Endosulfan II	Endrin	gamma-BHC	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Methoxy-chlor	All Other OCPs/PCBs
	Analytical Method[1]	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**0.15**	**0.10**	**0.10**	**0.002**	**0.1**	**0.3**	**--**	**0.5**	**42**	**2**	**0.2**	**0.1**	**0.01**	**0.01**	**40**	**--**
1349MW103	02/28/07	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / NA
	03/09/06	< 0.1	< 0.1	< 0.1 UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / NA
	03/23/05	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.1 UJ	< 0.05	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 # UJ	ND
	03/15/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/03/03	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
DUP1203032A	12/03/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/12/03	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
	06/05/03	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.5 UJ	ND
1349MW104	02/28/07	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / NA
	03/09/06	< 0.1	< 0.1	< 0.1 UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / NA
	03/23/05	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.1 UJ	< 0.05	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 # UJ	ND
	03/15/04	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND
	12/02/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/12/03	< 0.09	< 0.09	< 0.09	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.09	< 0.09	< 0.09	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
	06/06/03	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND
1349MW105	02/28/07	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / NA
	03/20/06	< 0.1	< 0.1	< 0.1 # UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5 # UJ	ND / NA
	03/23/05	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.1 UJ	< 0.05	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 # UJ	ND
	03/15/04	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.5 UJ	ND
	12/02/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/12/03	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
	06/09/03	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.5 UJ	ND

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Groundwater cleanup levels were taken from the *Final Corrective Action Plan Building 1349 Study Area, Presidio of San Francisco, California* (BBL, 2006).
Bold numbers indicate detected concentrations which exceed drinking water quality criteria.
µg/L - micrograms per liter
-- cleanup level not established
ND - Not detected
NA - Not analyzed
- The continuing calibration verification (CCV) drifted outside the limits although the average CCV drift was within method requirements.
OCPs - Organochlorine pesticides
PCBs - Polychlorinated biphenyls
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-5-5
Results of PAH Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	Acenaphthene	Anthracene	Benzo(a)-Anthracene	Benzo(a)-Pyrene	Benzo(b)-Fluoranthene	Benzo(g,h,i)-Perylene	Benzo(k)-Fluoranthene	Chrysene	Dibenz(a,h)-Anthracene	Fluor-anthene	Fluorene	Indeno-(1,2,3-c,d)-Pyrene	Naph-thalene	Phen-anthrene	Pyrene	All Other PAHs
	Analytical Method[1]	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Level [2]		**420**	**770**	**0.1**	**0.2**	**0.2**	**150**	**2**	**20**	**0.0085**	**300**	**300**	**0.029**	**300**	**230**	**230**	**--**
1349MW01	03/01/07	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	0.02 J	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
DUP0301073A	03/01/07	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
1349MW01CL	03/01/07	< 1	< 0.1	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.2	< 0.2	< 0.1	< 1	< 0.1	< 0.2	ND
	03/16/06	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	03/21/05	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	03/15/04	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	12/02/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	08/21/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	06/10/03	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	03/12/03	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	12/09/02	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
DUP1209021A	12/09/02	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
1349MW01CL	12/09/02	< 0.5	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.05	< 0.05	< 0.2	< 0.1	< 0.1	< 0.05	< 0.5	< 0.05	< 0.05	ND
	08/28/02	< 0.99	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.4	< 0.99	< 0.14	< 0.99	< 0.5	< 0.2	ND
	05/30/02	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	03/06/02	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	11/28/01	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	08/30/01	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
DUP0830013A	08/30/01	< 1.1	< 0.53	< 0.11	< 0.11	< 0.21	< 0.19	< 0.11	< 0.11	< 0.19	< 0.43	< 1.1	< 0.13	< 1.1	< 0.53	< 0.21	ND
1349MW01CL	08/30/01	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.15	< 0.1	< 0.1	< 0.15	< 0.1	< 0.15	ND
	05/10/01	< 0.95 UJ	< 0.48 UJ	< 0.1 UJ	< 0.1 UJ	< 0.19 UJ	< 0.19 UJ	< 0.1 UJ	< 0.1 UJ	< 0.19 UJ	< 0.38 UJ	< 0.95 UJ	< 0.13 UJ	< 0.95 UJ	< 0.48 UJ	< 0.19 UJ	ND
1349MW02	02/28/07	< 1	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.4	< 1	< 0.14	< 1	< 0.5	< 0.2	ND
	03/10/06	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	08/31/05	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	05/25/05	< 0.99	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.4	< 0.99	< 0.14	< 0.99	< 0.5	< 0.2	ND
	03/21/05	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	03/15/04	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	12/02/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	08/13/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	06/05/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
DUP0605032A	06/05/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	03/12/03	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	12/04/02	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
DUP1204023A	12/04/02	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	08/28/02	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	05/30/02	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	03/06/02	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
DUP0306022A	03/06/02	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	11/28/01	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
DUP1128011A	11/28/01	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	08/30/01	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
DUP0830012A	08/30/01	< 1	< 0.51	< 0.1	< 0.1	< 0.2	< 0.19	< 0.1	< 0.1	< 0.19	< 0.41	< 1	< 0.13	< 1	< 0.51	< 0.2	ND
1349MW02CL	08/30/01	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.15	< 0.1	< 0.1	< 0.15	< 0.1	< 0.15	ND
	05/10/01	< 0.97	< 0.49 UJ	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND

Table A-5-5
Results of PAH Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	Acenaphthene	Anthracene	Benzo(a)-Anthracene	Benzo(a)-Pyrene	Benzo(b)-Fluoranthene	Benzo(g,h,i)-Perylene	Benzo(k)-Fluoranthene	Chrysene	Dibenz(a,h)-Anthracene	Fluor-anthene	Fluorene	Indeno-(1,2,3-c,d)-Pyrene	Naph-thalene	Phen-anthrene	Pyrene	All Other PAHs
	Analytical Method[1]	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Level [2]		**420**	**770**	**0.1**	**0.2**	**0.2**	**150**	**2**	**20**	**0.0085**	**300**	**300**	**0.029**	**300**	**230**	**230**	**--**
1349MW03R	03/16/06	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	08/31/05	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	03/21/05	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	03/09/04	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	12/02/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	08/13/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	06/09/03	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
1349MW100	06/06/07	5.1	1.4	**2.6**	< 0.09	< 0.19	< 0.19	0.16	2.5	< 0.19	8.5	16	< 0.13	< 0.94	29	3.7	ND
DUP0606073A	06/06/07	6.2	1.4	**2.2**	< 0.1	< 0.19	< 0.19	0.14	2.4	< 0.19	8	16	< 0.13	< 0.95	27	3.4	ND
1349MW100CL	06/06/07	< 0.96	3.1 J+	< 0.096	< 0.096	< 0.2	< 0.2	< 0.096	< 0.096	< 0.2	< 13 i	15 D J+	< 0.096	< 0.96	< 110 i	< 4 i	ND
	03/01/07	< 0.97	1.2	**1.9**	< 0.1	**0.21**	< 0.19	0.14	1.7	< 0.19	7	16	< 0.14	< 0.97	25	2.9	ND
DUP0301073B	03/01/07	3.8	0.63	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	0.85	< 0.2	3.9	11	< 0.14	< 1	15	1.3	ND
	12/05/06	12	1.1	**2.3**	< 0.1	**1.2**	< 0.2	0.11	1.2	< 0.2	41	17	< 0.14	< 1	41	< 0.2	ND
	08/16/06	4.9	0.71	**1.1**	< 0.09 R	< 0.19	< 0.19	< 0.09	1.1	< 0.19	4.7	13	< 0.13	< 0.94 R	17	1.5 J-	ND
	05/24/06	3.6	0.2 J	**0.11**	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	1.6	7.5	< 0.14	< 1	4.9	0.38	ND
DUP0524063A	05/24/06	4.3	0.28 J	**0.14**	< 0.1	< 0.2	< 0.2	< 0.1	0.1	< 0.2	1.8	8.4	< 0.14	< 0.98	5.8	0.48	ND
1349MW100CL	05/24/06	5.6 P J-	0.24 P J-	**0.48 P J-**	< 0.2 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.5 U UJ	0.38 P J-	4 J-	< 0.2 U UJ	< 5 U UJ	3.5 J-	0.44 P J-	ND
	03/16/06	6.6	0.36 J	**0.35**	< 0.1	< 0.19	< 0.19	< 0.1	0.29	< 0.19	2.3	10	< 0.13	< 0.96	9	0.75	ND
	11/30/05	12 J+	2.8 J+	**3.7 J+**	< 0.09	**0.74 J+**	< 0.19	0.31 J+	4.1 J+	< 0.19	22 J+	29 J+	< 0.13	< 0.94	63 J+	7.8 J+	ND
	08/31/05	10 J+	< 0.48	**1.3 J+**	< 0.1	< 0.19	< 0.19	< 0.1	0.74 J+	< 0.19	11 J+	< 0.95	< 0.13	< 0.95	9.2 J+	0.65 J+	ND
	05/25/05	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	0.78 J+	18 J+	< 0.13	< 0.94	8.4 J+	0.34 J+	ND
	03/23/05	< 0.95	< 0.48	< 0.1	**0.63 J+**	**4.8 J+**	< 0.19	0.85 J+	< 0.1	**1.7 J+**	5.4 J+	22	< 0.13	< 0.95	34	3.8 J+	ND
	03/16/04	< 19	< 9.4	**6.2**	< 1.9	< 3.8	< 3.8	< 1.9	2.7	< 3.8	14	46	< 2.6	< 19	86	< 3.8	ND
	12/02/03	< 0.95	0.59 J,J+	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	0.32 J+	< 0.19	0.96 J+	11 J+	< 0.13	< 0.95	9.6 J+	0.28 J+	ND
	08/12/03	< 0.95	1.1 J+	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	0.81 J+	< 0.19	1.7 J+	19 J+	< 0.13	< 0.95	18 J+	0.51 J+	ND
	06/09/03	< 0.94	< 0.47	**0.53 J+**	< 0.09	< 0.19	< 0.19	< 0.09	1 J+	< 0.19	2.4 J+	13 J+	< 0.13	7.5 J+	17 J+	0.75 J+	ND
	03/12/03	< 0.98	< 0.49	**0.14**	< 0.1	< 0.2	< 0.2	< 0.1	0.16	< 0.2	< 0.39	5.2	< 0.14	< 0.98	5.3	0.27	ND
	12/10/02	< 0.94	0.25 J	**0.15**	< 0.09	< 0.19	< 0.19	< 0.09	0.17	< 0.19	0.43	4	< 0.13	< 0.94	4.2	0.23	ND
1349MW101	03/16/06	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	08/31/05	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	03/21/05	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	03/09/04	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	12/02/03	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	08/19/03	< 0.95 UJ	< 0.48 UJ	< 0.1 UJ	< 0.1 UJ	< 0.19 UJ	< 0.19 UJ	< 0.1 UJ	< 0.1 UJ	< 0.19 UJ	< 0.38 UJ	< 0.95 UJ	< 0.13 UJ	< 0.95 UJ	< 0.48 UJ	< 0.19 UJ	ND
	06/09/03	< 0.94 UJ	< 0.47 UJ	< 0.09 UJ	< 0.09 UJ	< 0.19 UJ	< 0.19 UJ	< 0.09 UJ	< 0.09 UJ	< 0.19 UJ	< 0.38 UJ	< 0.94 UJ	< 0.13 UJ	< 0.94 UJ	< 0.47 UJ	< 0.19 UJ	ND
1349MW102	03/07/06	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
DUP0307063C	03/07/06	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
1349MW102CL	03/07/06	< 5 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.5 U UJ	< 0.2 U UJ	< 1 U UJ	< 0.2 U UJ	< 5 U UJ	< 1 U UJ	< 0.2 U UJ	ND
	08/31/05	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
DUP0831052A	08/31/05	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	03/21/05	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
DUP0321053A	03/21/05	< 1	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.4	< 1	< 0.14	< 1	< 0.5	< 0.2	ND
	03/10/04	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
DUP0310041A	03/10/04	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
1349MW102CL	03/10/04	< 0.5	< 0.05	< 0.05	< 0.05 R	< 0.1 UJ	< 0.1 UJ	< 0.05 UJ	< 0.05	< 0.2 UJ	< 0.1	< 0.1	< 0.05 UJ	< 0.5	< 0.05	< 0.05	ND

Table A-5-5
Results of PAH Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	Acenaphthene	Anthracene	Benzo(a)-Anthracene	Benzo(a)-Pyrene	Benzo(b)-Fluoranthene	Benzo(g,h,i)-Perylene	Benzo(k)-Fluoranthene	Chrysene	Dibenz(a,h)-Anthracene	Fluor-anthene	Fluorene	Indeno-(1,2,3-c,d)-Pyrene	Naph-thalene	Phen-anthrene	Pyrene	All Other PAHs
	Analytical Method[1]	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Level [2]		**420**	**770**	**0.1**	**0.2**	**0.2**	**150**	**2**	**20**	**0.0085**	**300**	**300**	**0.029**	**300**	**230**	**230**	**--**
1349MW102	12/10/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
DUP1210031A	12/10/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	08/12/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	06/09/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
DUP0609032A	06/09/03	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
1349MW102CL	06/09/03	< 0.48	< 0.048	< 0.048	< 0.048	< 0.095	< 0.095	< 0.048	< 0.048	< 0.19	< 0.095	< 0.095	< 0.048	< 0.48	< 0.048	< 0.048	ND
1349MW103	02/28/07	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	03/09/06	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	03/23/05	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	03/15/04	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	12/03/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	0.16	< 0.19	0.1 J	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
DUP1203032A	12/03/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	08/12/03	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	06/05/03	< 0.95	0.1 J	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	0.16	< 0.19	0.25 J	< 0.95	< 0.13	< 0.95	0.84	< 0.19	ND
1349MW104	02/28/07	< 1.1	< 0.53	< 0.11	< 0.11	< 0.21	< 0.21	< 0.11	< 0.11	< 0.21	< 0.42	< 1.1	< 0.15	< 1.1	< 0.53	< 0.21	ND
	03/09/06	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	03/23/05	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	03/15/04	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	12/02/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	08/12/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	06/06/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
1349MW105	02/28/07	< 1	< 0.51	< 0.1	< 0.1	< 0.21	< 0.21	< 0.1	< 0.1	< 0.21	< 0.41	< 1	< 0.14	< 1	< 0.51	< 0.21	ND
	03/20/06	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	03/23/05	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	03/15/04	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	12/02/03	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	08/12/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	06/09/03	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	0.02 J	< 0.95	< 0.13	< 0.96	< 0.48	< 0.19	ND

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Groundwater cleanup levels were taken from the *Final Corrective Action Plan Building 1349 Study Area, Presidio of San Francisco, California* (BBL, 2006).
BOLD concentrations indicate an exceedance of applicable cleanup levels.
-- cleanup level not established
µg/L - micrograms per liter
ND - Not detected
NS - Not sampled
PAHs - Polycyclic aromatic hydrocarbons
CL suffix denotes a quality control duplicate sample was sent to control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-5-6
Results of Chlorinated Herbicide Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	2,4-D	2,4-DB	All Other Chlorinated Herbicides
	Analytical Method[1]	SW8151/ SW8151A	SW8151/ SW8151A	SW8151/ SW8151A
		(µg/L)	(µg/L)	(µg/L)
1349MW01	03/15/04	< 0.24 U	< 0.96 U	ND
	12/02/03	< 0.24 U	< 0.96 U	ND
	08/21/03	< 0.25	< 1	ND
	06/10/03	< 0.24	< 0.96	ND
1349MW02	08/31/05	< 0.25 U	< 1 U	ND
	03/21/05	< 0.25 U	< 1 U	ND
	12/16/04	< 0.25 U	< 1 U	ND
	08/12/04	< 0.24 U UJ	< 0.96 U UJ	ND
	05/26/04	< 0.24 U	< 0.96 U	ND
	03/15/04	< 0.24 U	< 0.96 U	ND
	12/02/03	< 0.24 U	< 0.96 U	ND
	08/13/03	< 0.24	< 0.96	ND
	06/05/03	< 0.24	< 0.96	ND
DUP0605032A	06/05/03	< 0.24	< 0.96	ND
1349MW03R	08/31/05	< 0.25 U	< 1 U	ND
	03/21/05	< 0.25 U	< 1 U	ND
	12/16/04	< 0.25 U UJ	< 1 U UJ	ND
	08/10/04	< 0.24 U	< 0.96 U	ND
	05/26/04	< 0.24 U	< 0.96 U	ND
	03/09/04	< 0.24 U	< 0.96 U	ND
	12/02/03	< 0.24 U	< 0.96 U	ND
	08/13/03	< 0.24	< 0.96	ND
	06/09/03	< 0.24	< 0.96	ND
1349MW100	08/31/05	< 0.25 U	< 1 U	ND
	03/23/05	< 0.25 U	< 1 U	ND
	12/16/04	< 0.25 U	< 1 U	ND
	08/10/04	< 0.24 U	< 0.96 U	ND
	05/27/04	< 0.24 U	< 0.96 U	ND
	03/16/04	< 0.24 U	< 0.96 U	ND
	12/02/03	< 0.24 U	< 0.96 U	ND
	08/12/03	2.1	12	ND
	06/09/03	< 0.24	< 0.96	ND
1349MW101	08/31/05	< 0.25 U	< 1 U	ND
	03/21/05	< 0.25 U	< 1 U	ND
	03/09/04	< 0.24 U	< 0.96 U	ND
	12/02/03	< 0.24 U	< 0.96 U	ND
	08/19/03	< 0.24	< 0.96	ND
	06/09/03	< 0.24	< 0.96	ND

Table A-5-6
Results of Chlorinated Herbicide Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	2,4-D	2,4-DB	All Other Chlorinated Herbicides
	Analytical Method[1]	SW8151/ SW8151A	SW8151/ SW8151A	SW8151/ SW8151A
		(µg/L)	(µg/L)	(µg/L)
1349MW102	08/31/05	< 0.25 U	< 1 U	ND
DUP0831052A	08/31/05	< 0.25 U	< 1 U	ND
	03/21/05	< 0.25 U	< 1 U	ND
DUP0321053A	03/21/05	< 0.25 U	< 1 U	ND
	12/16/04	< 0.25 U	< 1 U	ND
	08/10/04	< 0.24 U	< 0.96 U	ND
DUP0810042A	08/10/04	< 0.24 U	< 0.96 U	ND
	05/27/04	< 0.24 U	< 0.96 U	ND
DUP0527041A	05/27/04	< 0.24 U	< 0.96 U	ND
1349MW102CL	05/27/04	< 0.24	< 0.24	ND
	03/10/04	< 0.24 U	< 0.96 U	ND
1349MW102CL	03/10/04	< 0.25 UJ	< 0.25 UJ	ND
	12/10/03	< 0.24 U	< 0.96 U	ND
DUP1210031A	12/10/03	< 0.24 U	< 0.96 U	ND
	08/12/03	< 0.25	< 1	ND
	06/09/03	< 0.24	< 0.96	ND
DUP0609032A	06/09/03	< 0.24	< 0.96	ND
1349MW102CL	06/09/03	< 0.24 UJ	< 0.24 UJ	ND
1349MW103	03/15/04	< 0.24 U	< 0.96 U	ND
	12/03/03	< 0.24 U	< 0.96 U	ND
DUP1203032A	12/03/03	< 0.24 U	< 0.96 U	ND
	08/12/03	< 0.25	< 1	ND
	06/05/03	< 0.24	< 0.96	ND
1349MW104	03/15/04	< 0.24 U	< 0.96 U	ND
	12/02/03	< 0.24 U	< 0.96 U	ND
	08/12/03	< 0.25	< 1	ND
	06/06/03	< 0.24	< 0.96	ND
1349MW105	03/15/04	< 0.24 U	< 0.96 U	ND
	12/02/03	< 0.24 U	< 0.96 U	ND
	08/12/03	< 0.25	< 1	ND
	06/09/03	< 0.24	< 0.96	ND

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
µg/L - micrograms per liter
ND - Not detected
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-5-7
Results of Dissolved Metals Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium [2]	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method [1]	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Level [3]		**--**	**6**	**10**	**1,000**	**4**	**5**	**--**	**50**	**140**	**1,000**	**21**	**--**	**15**	**--**	**--**	**2**	**100**	**--**	**50**	**50**	**--**	**2**	**15**	**5,000**	**--**
1349MW01	03/01/07	< 100	< 1	< 5	32	< 2	1.5 J	110,000	< 10	< 10	11	NA	110	< 3	230,000	< 10	< 0.2	< 20	2,000 J	< 5	< 1	250,000	< 1	< 10	25 J	1,810
DUP0301073A	03/01/07	< 100	< 1	< 5	31	< 2	1.4 J	110,000	< 10	< 10	1.4	NA	< 100	< 3	210,000	< 10	< 0.2	< 20	2,000 J	< 5	< 1	230,000	< 1	< 10	25 J	1,860
1349MW01CL	03/01/07	< 50	0.07	7	29.3	< 0.02	0.82	113,000	< 5	0.43	1.4	NA	< 20	0.2	233,000	< 5	< 0.2	13.8	< 2,000	< 5	0.13	270,000	< 0.02	< 10	689	1,800 J-
	03/16/06	< 100	< 1	< 5	32	< 2	< 1	110,000	< 10	< 10	< 1	NA	< 100	< 3	230,000 J	< 10	< 0.2	< 20	1900 J-	< 5	< 1	250,000	< 1	< 10	< 20	2,040 J
	03/21/05	< 100	< 1	< 5	34	< 2	< 1	92,000	< 10	< 10	1.1	NA	220	< 3	170,000	< 10	< 0.2	< 20	1,700	< 5	< 1	190,000	< 1	< 10	< 20	1,500
	03/15/04	< 100	< 1	< 5	34 J-	< 2	< 1	110,000	< 10	< 10	3	NA	270	< 3	210,000	< 10	< 0.2	< 20	1,800	< 5	< 1	250,000	< 1	< 10	< 20	1,650
	12/02/03	< 100	< 1	< 5	38	< 2	< 1	86,000	< 10	< 10	1.3	NA	370	< 3	180,000	< 10	< 0.2	< 20	1,900	< 5	< 1 UJ	200,000	< 1	< 10	< 20	1,240
	08/21/03	< 100	< 1	< 5	39	< 2	< 1	94,000	< 10	< 10	< 1	NA	610	< 3	200,000	< 10	< 0.2	< 20	1,700	5.3	< 1 UJ	200,000	< 1	< 10	< 20 UJ	1,660
	06/10/03	< 100	< 1	< 5	38	< 2	< 1	100,000	< 10	< 10	< 1	NA	150	< 3	180,000	12	< 0.2	< 20	1,900	< 5	< 1	170,000	< 1	< 10	< 20	1,650
	12/09/02	< 100	< 1	< 1	44	< 1	< 1	100,000	8.2	< 1	< 1	< 10	330	< 3	210,000	10 J	0.22	6.9	2,100	< 5	< 1 UJ	200,000	< 1	< 10	< 10	1,490
DUP1209021A	12/09/02	< 100	< 1	< 1	46	< 1	< 1	100,000	10	< 1	< 1	< 10	320	< 3	210,000	12 J	< 0.2	11	2,100	< 5	< 1 UJ	190,000	< 1	< 10	< 10	1,580
1349MW01CL	12/09/02	< 300	< 5	**14**	46	< 1	< 1	110,000 J+	7.3	< 7	6.5	< 5	< 150	< 3	240,000	11	< 0.2	12	2,600	6.1	< 1	210,000	< 2	< 10	< 10	1,600
	08/28/02	< 100	< 1	< 1	280	< 1	< 1	110,000	1.2 J	< 1	1.3	< 10	180	< 3	230,000	< 10	< 0.2	3.8	2,000	< 5	< 1 UJ	230,000	< 1	< 10	30	1,750
	05/30/02	< 100	< 1	< 1	42	< 1	< 1	100,000	3.2	< 1	1.2	< 10 UJ	200	< 3	210,000	< 10	< 0.2	4.3	2,000	< 5	< 1 UJ	210,000	< 1	< 10	< 10	1,670
	03/06/02	< 100	1.1	1.1	450	< 1	< 1	130,000	3.8	< 1	1.4	< 10	480	< 3	270,000	< 10	< 0.2	5.6	2,200	< 5	1.8 J-	290,000	< 1	< 10	90	1,660
	11/28/01	< 100	< 1	1.9	590	< 1	< 1	120,000	27 J	< 1	3.4	< 10	< 100	< 3	250,000	15	< 0.2	8.8	2,500	11	< 1	240,000	< 1	< 10	200	1,610
	08/30/01	< 100	1.6	< 1	470 J+	< 1	< 1	98,000	16	< 1	2.7	< 10 UJ	300	< 3	260,000	15	< 0.2	14	2,300	< 5	< 1 UJ	210,000	< 1	< 10	98	NA
DUP0830013A	08/30/01	< 100	< 1	< 1	110 J+	< 1	< 1	98,000	15	< 1	2	< 10 UJ	300	< 3	260,000	15	< 0.2	17	1,800	< 5	< 1 UJ	210,000	< 1	< 10	13	NA
1349MW01CL	08/30/01	< 200	0.53 J	< 2	110	< 1	< 1	100,000	7.2	0.97 J	1.5 J	< 10	< 200	< 5	220,000	16	< 0.2	6.7	2,600	7.4	< 1	260,000	< 5	< 5	19	2,100
	05/10/01	< 100	< 1	1.3	620	< 1	< 1	110,000	10 J	< 1	4.6 J	< 10 UJ	840	< 3	230,000	11	< 0.2	5.4 J	2,700	5.9	< 1 UJ	220,000	< 1	< 10	180 J	1,690 J
	05/19/99	< 100	NA	NA	NA	NA	NA	107,000	NA	NA	< 10	NA	< 100	NA	240,000	< 10	NA	NA	< 5,000	NA	NA	203,000	NA	NA	NA	1,900
	02/19/99	< 100	NA	NA	NA	NA	NA	101,000	NA	NA	< 10	NA	< 100	NA	234,000	< 10	NA	NA	< 5,000	NA	NA	193,000	NA	NA	NA	1,800
	11/18/98	< 100	NA	NA	NA	NA	NA	96,900	NA	NA	< 10	NA	< 100	NA	237,000	< 10	NA	NA	< 5,000	NA	NA	190,000	NA	NA	NA	1,640
	08/18/98	< 100	NA	NA	NA	NA	NA	102,000	NA	NA	11.8	NA	< 100	NA	248,000	< 10	NA	NA	< 5,000	NA	NA	197,000	NA	NA	NA	1,900
	04/16/98	< 100	NA	NA	NA	NA	NA	100,000	NA	NA	28.4	< 10 (U16)	< 100	NA	222,000	< 10	NA	NA	< 5,000	NA	NA	200,000	NA	NA	NA	1,980
	01/22/98	< 100	NA	NA	NA	NA	NA	94,900	NA	NA	< 10	NA	< 100	NA	238,000	13.4	NA	NA	< 5,000	NA	NA	182,000	NA	NA	NA	1,830
	10/30/97	< 100	NA	NA	NA	NA	NA	97,000	NA	NA	< 20	NA	< 100	NA	237,000	24.2	NA	NA	< 5,000	NA	NA	178,000	NA	NA	NA	1,950
	07/31/97	< 100	NA	NA	NA	NA	NA	93,200	NA	NA	< 20	NA	< 100	NA	221,000	14.2	NA	NA	< 5,000	NA	NA	190,000	NA	NA	NA	1,650
	05/01/97	< 100	NA	NA	NA	NA	NA	110,000	NA	NA	< 10	NA	< 100	NA	263,000	29	NA	NA	3,040	NA	NA	191,000	NA	NA	NA	1,830
	02/10/97	< 100	NA	NA	NA	NA	NA	118,000	NA	NA	5.1	NA	< 100	NA	260,000	34	NA	NA	< 5,000	NA	NA	234,000	NA	NA	NA	2,090
1349MW02	02/28/07	< 100	< 1	< 5	250	< 2	< 1	91,000	**81**	< 10	< 1	NA	< 100	< 3	430,000	< 10	< 0.2	< 20	< 500	< 5	< 1	250,000	< 1	< 10	< 20	2,270
	03/10/06	< 100	< 1	< 5	230 J	< 2	1.1	80,000	**75**	< 10	1.2	NA	230 J	< 3	260,000	13	< 0.2	< 20	810 J	< 5	< 1	210,000	< 1	< 10	< 20	2,060
	08/31/05	< 100	< 1	< 5	210	< 2	< 1	75,000	**60**	< 10	1.1	NA	140	< 3	280,000	< 10	< 0.2	< 20	< 500	< 5	< 1	210,000	< 1	< 10	< 20	2,170
	05/25/05	< 100 UJ	< 1	< 5	250	< 2	< 1	95,000	**56**	< 10	< 1	NA	< 100	< 3	270,000	< 10	< 0.2	< 20	660	< 5	< 1	220,000	< 1	< 10	< 20	2,030
	03/21/05	< 100	< 1	< 5	310	< 2	< 1	130,000	**67**	< 10	3	NA	350	< 3	210,000	< 10	< 0.2	< 20	660	< 5	< 1	190,000	< 1	< 10	< 20	1,780
	12/16/04	< 100	< 1	< 5	160	< 2	< 1	52,000	**76**	< 10	< 1	NA	190	< 3	250,000	< 10	< 0.2	< 20	< 500	< 5	< 1	200,000	< 1	< 10	< 20	1,690
	08/12/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,620
	05/26/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,620
	03/15/04	< 100	< 1	< 5	230 J-	< 2	< 1	85,000	**83**	< 10	1.8	NA	190	< 3	270,000	< 10	< 0.2	< 20	< 500	< 5	< 1	230,000	< 1	< 10	< 20	1,600
	12/02/03	< 100	1.3	< 5	170	< 2	< 1	57,000	**75**	< 10	1.1	NA	220	< 3	270,000	< 10	< 0.2	< 20	< 500	< 5	< 1 UJ	200,000	< 1	< 10	< 20	1,160
	08/13/03	< 100	1.7	< 5	180	< 2	< 1	61,000	**87**	< 10	< 1	NA	300	< 3	230,000	< 10	< 0.2	< 20	< 500	< 5	< 1 UJ	190,000	< 1	< 10	< 20	1,540
	06/05/03	< 100	1.3	< 5	180	< 2	< 1	59,000	**80**	< 10	1.2	NA	150	< 3	250,000	< 10	0.26	< 20	530	< 5	< 1	210,000	< 1	< 10	< 20	1,440
DUP0605032A	06/05/03	< 100	1.3	< 5	180	< 2	< 1	65,000	**83**	< 10	< 1	NA	100	< 3	240,000	< 10	< 0.2	< 20	< 500	< 5	< 1	190,000	< 1	< 10	< 20	1,500
	12/04/02	< 100	< 1	< 1	160	< 1	< 1	53,000	**92**	< 1	< 1	**80**	160	< 3	220,000	< 10	< 0.2	6.3	< 500	< 5	< 1 UJ	180,000	< 1	< 10	< 10	1,600
DUP1204023A	12/04/02	< 100	< 1	< 1	160	< 1	< 1	52,000	**94**	< 1	1.1	**80**	160	< 3	220,000	< 10	< 0.2	6.6	< 500	< 5	< 1 UJ	180,000	< 1	< 10	< 10	1,400
	08/28/02	< 100	1.2	< 1	510	< 1	< 1	55,000	**82 J**	< 1	1.4	**90**	< 100	< 3	240,000	< 10	< 0.2	6.2	660	< 5	< 1 UJ	210,000	< 1	< 10	68	1,500
	05/30/02	< 100	< 1	< 1	460	< 1	< 1	61,000	**79**	< 1	1.4	**70 J-**	< 100	< 3	230,000	< 10	< 0.2	5.1	690	< 5	< 1 UJ	200,000	< 1	< 10	87	1,610

Table A-5-7
Results of Dissolved Metals Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium [2]	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method [1]	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Level [3]		**--**	**6**	**10**	**1,000**	**4**	**5**	**--**	**50**	**140**	**1,000**	**21**	**--**	**15**	**--**	**--**	**2**	**100**	**--**	**50**	**50**	**--**	**2**	**15**	**5,000**	**--**
1349MW02	03/06/02	< 100	< 1	< 1	340	< 1	< 1	90,000	**95**	< 1	< 1	**90**	310	< 3	270,000	< 10	< 0.2	7	580	< 5	< 1 UJ	240,000	< 1	< 10	< 10	1,610
DUP0306022A	03/06/02	< 100	< 1	< 1	390	< 1	< 1	96,000	**97**	< 1	< 1	**90 J-**	310	< 3	290,000	< 10	< 0.2	7.2	600	< 5	< 1 UJ	260,000	< 1	< 10	16	1,580
	11/28/01	< 100	< 1	1.2	760	< 1	< 1	51,000	**130 J**	< 1	2.7	**100**	< 100	< 3	260,000	< 10	< 0.2	8.2	1,100	5.1	< 1	220,000	< 1	< 10	190	1,510
DUP1128011A	11/28/01	< 100	< 1	1	350	< 1	< 1	52,000	**130 J**	< 1	2.1	**100 J**	< 100	< 3	260,000	< 10	< 0.2	8.4	900	< 5	< 1	220,000	< 1	< 10	30	1,470
	08/30/01	< 100	< 1	< 1	150 J+	< 1	< 1	45,000	**110**	< 1	1.8	< 10	150	< 3	250,000	< 10	< 0.2	6.9	< 500	< 5	< 1 UJ	210,000	< 1	< 10	< 10	1,550
DUP0830012A	08/30/01	< 100	< 1	< 1	160 J+	< 1	< 1	47,000	**100**	< 1	1.9	< 10	150	< 3	260,000	< 10	< 0.2	6.6	<500	< 5	< 1 UJ	210,000	< 1	< 10	15	1,470
1349MW02CL	08/30/01	< 200	1.2 J	< 2	800	< 1	< 1	47,000	**110**	0.92 J	1.7 J	**90**	< 200	< 5	230,000	< 5	< 0.2	8.3	<1,000	7.9	< 1	280,000	< 1	< 5	170	1,900
	05/10/01	< 100	< 1	1.1	560	< 1	< 1	49,000	**98 J**	< 1	4.2 J	**70 J**	390	<3	250,000	< 10	< 0.2	9.3 J	780	< 5	< 1 UJ	210,000	< 1	< 10	160 J	1,620 J
	05/19/99	< 100	NA	NA	NA	NA	NA	57,300	NA	NA	< 10	NA	< 100	NA	274,000	< 10	NA	NA	< 5,000	NA	NA	204,000	NA	NA	NA	1,900
	02/19/99	< 100	NA	NA	NA	NA	NA	63,500	NA	NA	< 10	NA	< 100	NA	284,000	< 10	NA	NA	< 5,000	NA	NA	215,000	NA	NA	NA	1,840
	11/18/98	< 100	NA	NA	NA	NA	NA	59,300	NA	NA	18.7	NA	< 100	NA	283,000	< 10	NA	NA	< 5,000	NA	NA	213,000	NA	NA	NA	1,770
	08/18/98	< 100	NA	NA	NA	NA	NA	57,800	NA	NA	< 10	NA	< 100	NA	267,000	< 10	NA	NA	< 5,000	NA	NA	211,000	NA	NA	NA	1,900
	04/16/98	< 100	NA	NA	NA	NA	NA	53,500	NA	NA	< 10	**43 (J16)**	< 100	NA	233,000	< 10	NA	NA	< 5,000	NA	NA	195,000	NA	NA	NA	1,760
	01/22/98	< 100	NA	NA	NA	NA	NA	50,800	NA	NA	< 10	NA	< 100	NA	244,000	< 10	NA	NA	< 5,000	NA	NA	196,000	NA	NA	NA	1,750
	10/30/97	< 100	NA	NA	NA	NA	NA	52,300	NA	NA	< 20	NA	< 100	NA	244,000	< 10	NA	NA	< 5,000	NA	NA	199,000	NA	NA	NA	1,750
	07/31/97	< 100	NA	NA	NA	NA	NA	51,300	NA	NA	< 20	NA	< 100	NA	249,000	< 10	NA	NA	< 5,000	NA	NA	205,000	NA	NA	NA	1,810
	05/01/97	< 100	NA	NA	NA	NA	NA	53,900	NA	NA	< 10	NA	< 100	NA	266,000	< 10	NA	NA	< 1,000	NA	NA	188,000	NA	NA	NA	1,700
	02/10/97	< 100	NA	NA	NA	NA	NA	39,600	NA	NA	2.5	NA	< 100	NA	176,000	19.7	NA	NA	< 5,000	NA	NA	145,000	NA	NA	NA	1,490
1349MW03R	03/16/06	< 100	< 1	< 5	81	< 2	< 1	52,000	**120**	< 10	< 1	NA	< 100	< 3	220,000 J	< 10	< 0.2	< 20	1,300 J-	< 5	< 1	280,000	< 1	< 10	< 20	2,060
	11/30/05	< 100	< 1	< 5	23	< 2	< 1	23,000	**100 J**	< 10	< 1	NA	100	< 3	110,000	< 10	< 0.2	< 20	660	< 5	< 1	79,000	< 1	< 10	< 20	750
	08/31/05	< 100	< 1	< 5	19	< 2	< 1	29,000	**100**	< 10	< 1	NA	< 100	< 3	110,000	< 10	< 0.2	< 20	870	< 5	< 1	85,000	< 1	< 10	< 20	710
	05/25/05	< 100 UJ	< 1	< 5	41 J	< 2	< 1	46,000	**130**	< 10	< 1	NA	< 100	< 3	190,000	< 10	< 0.2	< 20	1,700	< 5	< 1	190,000	< 1	< 10	< 20	1,460
	03/21/05	< 100	< 1	< 5	90	< 2	< 1	70,000	**190**	< 10	1.3	NA	180	< 3	230,000	< 10	< 0.2	< 20	4,100	< 5	< 1	300,000	< 1	< 10	< 20	1,980
	12/16/04	< 100	< 1	< 5	< 10	< 2	< 1	19,000	**68**	< 10	< 1	NA	< 100	< 3	78,000	< 10	< 0.2	< 20	2,200	< 5	< 1	57,000	< 1	< 10	< 20	530
	08/10/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	540
	05/26/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	580
	03/09/04	< 100	< 1	< 5	< 10	< 2	< 1	23,000	**94**	< 10	< 1	NA	< 100	< 3	84,000	< 10	< 0.2	< 20	3,000 J	< 5	< 1 UJ	67,000	< 1	< 10	< 20	550
	12/02/03	< 100	1.9	5.4	< 10	< 2	< 1	18,000	42	< 10	< 1	NA	< 100	< 3	68,000	< 10	< 0.2	< 20	4,400	< 5	< 1 UJ	56,000	< 1	< 10	< 20	360
	08/13/03	< 100	3.3	7.4	< 10	< 2	< 1	24,000	**59**	< 10	< 1	NA	120	< 3	70,000	< 10	< 0.2	< 20	6,100	< 5	< 1 UJ	63,000	< 1	< 10	< 20	510
	06/09/03	< 100	1.4	6.2	< 10	< 2	< 1	30,000	44	< 10	< 1	NA	< 100	< 3	60,000	< 10	< 0.2	< 20	9,700	< 5	< 1 UJ	100,000	< 1	< 10	< 20	690
1349MW100	06/06/07	< 100 UJ	< 1	9.4	610	< 2	< 1	140,000 J-	< 10	< 10	< 1	NA	39,000 J-	< 3	190,000	13,000	< 0.2	< 20	2,000 J-	< 5	< 1	350,000	< 1	< 10	< 20	2,920
DUP0606073A	06/06/07	< 100 UJ	< 1	8.5	620	< 2	< 1	150,000 J-	< 10	< 10	< 1	NA	41,000 J-	< 3	190,000	13,000	< 0.2	< 20	2,100 J-	< 5	< 1	360,000	< 1	< 10	< 20	2,280
1349MW100CL	06/06/07	< 50	< 0.1	**18**	710	< 0.04	< 0.04	145,000	< 5	0.98	1	NA	39,300	< 0.1	213,000	15,300	< 0.2	9.7	< 2,000	< 5	< 0.04	405,000	< 0.04	< 10	< 10	2,360
	03/01/07	< 100	< 1	7.5	730	< 2	< 1 UJ	150,000	< 10	< 10	< 1	NA	33,000	< 3	200,000	15,000	< 0.2	< 20	2,200 J	< 5	< 1	400,000	< 1	< 10	< 20 UJ	2,110
DUP0301073B	03/01/07	< 100	< 1	7.8	660	< 2	< 1 UJ	130,000	< 10	< 10	< 1	NA	31,000	< 3	180,000	14,000	< 0.2	< 20	2,100 J	< 5	< 1	360,000	< 1	< 10	< 20 UJ	2,070
	12/05/06	< 100	< 1	**12**	530	< 2	< 1	170,000	< 10	< 10	< 1	NA	58,000	< 3	240,000	14,000	< 0.2	< 20	2,500 J	< 5	< 1	420,000	< 1	< 10	< 20	2,320 J+
	08/16/06	< 100	< 1	8.9	560	< 2	< 1	160,000	< 10	< 10	< 1	NA	42,000	< 3	230,000	14,000	< 0.2 UJ	< 20	2,800	< 5	< 1	480,000	< 1	< 10	< 20	2,160
	05/24/06	< 100	< 1	**13**	380	< 2	< 1	150,000	< 10	< 10	< 1	NA	33,000	< 3	200,000	14,000	< 0.2	< 20	3,800	< 5	< 1	460,000	< 1	< 10	< 20	2,550
DUP0524063A	05/24/06	< 100	< 1	**12**	380	< 2	< 1	140,000	< 10	< 10	< 1	NA	34,000	< 3	200,000	14,000	< 0.2	< 20	3,500	< 5	< 1	450,000	< 1	< 10	< 20	2,460
1349MW100CL	05/24/06	< 100 U	< 2 U	**15**	425	< 10 U	< 1 U	165,000	< 10 U	5.1	4.3	NA	36,500 J+	< 1 U	226,000	14,800	< 0.2 U	15	< 5,000 U	< 2 U	< 1 U	502,000	< 1 U	< 10 U	< 20 U	2,110
	03/16/06	< 100	< 1	9.4	450	< 2	< 1	130,000	< 10	< 10	< 1	NA	27,000	< 3	180,000 J	14,000	< 0.2	< 20	2,700 J-	10	< 1	400,000	< 1	< 10	< 20	510
	11/30/05	< 100	< 1	9.6	840	< 2	< 1	200,000	< 10 UJ	< 10	1	NA	52,000	< 3	290,000	20,000	< 0.2	< 20	2,400	< 5	< 1	400,000	< 1	< 10	21	5,570
	08/31/05	< 100	< 1	< 5	**1,200**	< 2	< 1	260,000	< 10	< 10	1.1	NA	63,000	< 3	390,000	26,000	< 0.2	< 20	2,700 J	< 5	< 1	470,000	< 1	< 10	31	3,890
	05/25/05	< 100 UJ	< 1	**11**	490	< 2	< 1	170,000	< 10	< 10	< 1	NA	33,000	< 3	210,000	16,000	< 0.2	< 20	3,100	< 5	< 1	440,000	< 1	< 10	< 20	2,260
	03/23/05	< 100	< 1	8	510	< 2	< 1	140,000	< 10	< 10	1.1	NA	31,000	< 3	200,000	13,000	< 0.2	< 20	2,700	< 5	< 1	390,000	< 1	< 10	< 20	2,350
	12/16/04	< 100	< 1	**20**	530	< 2	< 1	190,000	< 10	< 10	1.8	NA	39,000	< 3	280,000	18,000	< 0.2	< 20	3,300	< 5	< 1	390,000	< 1	< 10	< 20	2,870
	08/10/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,450
	05/26/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,490
	03/16/04	< 100	1.8	**11**	600 J-	< 2	< 1	150,000	< 10	< 10	1.3	NA	30,000	< 3	210,000	16,000	< 0.2	< 20	2,800	< 5	< 1	440,000	< 1	< 10	< 20	2,050
	12/02/03	< 100	2.6	**23**	530	< 2	< 1	170,000	16	< 10	1.3	NA	36,000	< 3	290,000	15,000	< 0.2	< 20	3,900	< 5	< 1 UJ	380,000	< 1	< 10	< 20	1,820
	08/12/03	< 100	< 1	**15 J+**	700	< 2	< 1	160,000	15 J	< 10	< 1	NA	21,000	< 3	250,000	160	< 0.2	< 20	3,400	< 5	< 1 UJ	350,000	< 1	< 10	< 20 UJ	2,450
	06/09/03	< 100	1.9	**14**	520	< 2	< 1	130,000	10	< 10	< 1	NA	25,000	< 3	190,000	14,000	< 0.2	< 20	2,900	< 5	< 1 UJ	370,000	< 1	< 10	< 20	2,200
	03/12/03	< 100	< 1	7.9	680	< 1	< 1	140,000	7.2	8.9	< 1	< 10	13,000	< 3	190,000	14,000	< 0.2	15	2,600	< 5	< 1 UJ	330,000 J-	< 1	< 10	< 10	2,100
	12/10/02	< 100	< 1	5.9	300	< 1	< 1	190,000	12	33	1.3	< 10	4,600	< 3	290,000	6,600 J	< 0.2	28	7,600	< 5	< 1 UJ	300,000	< 1	< 10	< 10	2,480

Table A-5-7
Results of Dissolved Metals Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium [2]	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method [1]	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Level [3]		**--**	**6**	**10**	**1,000**	**4**	**5**	**--**	**50**	**140**	**1,000**	**21**	**--**	**15**	**--**	**--**	**2**	**100**	**--**	**50**	**50**	**--**	**2**	**15**	**5,000**	**--**
1349MW101	03/16/06	< 100	< 1	< 5	< 10	< 2	< 1	15,000	41	< 10	< 1	NA	< 100	< 3	58,000 J	< 10	< 0.2	< 20	1,700 J-	< 5	< 1	94,000	< 1	< 10	< 20	750
	08/31/05	< 100	< 1	< 5	< 10	< 2	< 1	16,000	25	< 10	< 1	NA	< 100	< 3	62,000	< 10	< 0.2	< 20	2,200	< 5	< 1	100,000	< 1	< 10	< 20	660
	05/25/05	< 100 UJ	< 1	5.5	< 10 UJ	< 2	< 1	19,000	25	< 10	< 1	NA	< 100	< 3	73,000	< 10	< 0.2	< 20	3,100	< 5	< 1	130,000	< 1	< 10	< 20	650
DUP0525052A	05/25/05	< 100 UJ	< 1	5.5	< 10 UJ	< 2	< 1	19,000	25	< 10	< 1	NA	< 100	< 3	72,000	< 10	< 0.2	< 20	3,000	< 5	< 1	120,000	< 1	< 10	< 20	560
	03/21/05	< 100	< 1	5.7	< 10	< 2	< 1	19,000	33	< 10	1	NA	< 100	< 3	57,000	< 10	< 0.2	< 20	3,000	< 5	< 1	97,000	< 1	< 10	< 20	430
	12/15/04	< 100	< 1	5.1	< 10	< 2	< 1	19,000 J	24	< 10	< 1	NA	< 100	< 3	45,000	< 10	< 0.2	< 20	3,400	< 5	< 1	66,000	< 1 UJ	< 10	< 20	550
	03/09/04	< 100	1.3	5.2	< 10	< 2	< 1	23,000	45	< 10	< 1	NA	< 100	< 3	61,000	< 10	< 0.2	< 20	4,300 J	< 5	< 1 UJ	99,000	< 1	< 10	< 20	590
	12/02/03	< 100	1.8	< 5	< 10	< 2	< 1	20,000	15	< 10	< 1	NA	< 100	< 3	54,000	24	< 0.2	< 20	6,300	< 5	< 1 UJ	120,000	< 1	< 10	< 20	390
	08/19/03	< 100	< 1	5.9	< 10	< 2	< 1	29,000	15	< 10	< 1	NA	120	< 3	57,000	19	< 0.2	< 20	7,500	< 5	< 1 UJ	150,000	< 1	< 10	< 20 UJ	660
	06/09/03	< 100	< 1	6.1	< 10	< 2	< 1	36,000	34	< 10	< 1	NA	< 100	< 3	56,000	< 10	< 0.2	< 20	9,800	< 5	< 1 UJ	160,000	< 1	< 10	< 20	890
1349MW102	03/07/06	< 100	< 1	< 5	49	< 2	< 1	42,000 J	< 10	< 10	< 1	NA	190	< 3	98,000	140	NA	< 20	2,700	< 5	< 1	190,000	< 1	< 10	< 20	1,070
DUP0307063C	03/07/06	260	< 1	< 5	52	< 2	< 1	41,000 J	< 10	< 10	1.8	NA	530	< 3	96,000	150	NA	< 20	2,800	< 5	< 1	180,000	< 1	< 10	< 20	1,000
1349MW102CL	03/07/06	< 100 U	< 2 U	< 2 U	57	< 1 U	< 1 U	52,000	< 10 U	< 1 U	2.7	NA	< 100 U	< 1 U	110,000	160	< 0.2 U	5.4	< 5000 U	2.3	< 1 U	230,000	< 1 U	< 10 U	< 20 U	1,070 J+
	08/31/05	< 100	< 1	< 5	31	< 2	< 1	38,000	< 10	< 10	< 1	NA	< 100	< 3	57,000	< 10	< 0.2	< 20	2,800	< 5	< 1	150,000	< 1	< 10	< 20	850
DUP0831052A	08/31/05	< 100	< 1	< 5	30	< 2	< 1	39,000	< 10	< 10	< 1	NA	< 100	< 3	56,000	10	< 0.2	< 20	2,800	< 5	< 1	150,000	< 1	< 10	< 20	820
	05/25/05	< 100 UJ	< 1	< 5	25 J	< 2	< 1	43,000	< 10	< 10	< 1	NA	< 100	< 3	59,000	< 10	< 0.2	< 20	3,600	< 5	< 1	190,000	< 1	< 10	28	680
	03/21/05	< 100	< 1	< 5	55	< 2	< 1	62,000	< 10	< 10	< 1	NA	170	< 3	93,000	62	< 0.2	< 20	4,400	< 5	< 1	140,000	< 1	< 10	< 20	970
DUP0321053A	03/21/05	< 100	< 1	< 5	49	< 2	< 1	62,000	< 10	< 10	4.8	NA	170	< 3	83,000	48	< 0.2	< 20	4,300	< 5	< 1	150,000	< 1	< 10	< 20	1,040
	12/16/04	< 100	< 1	< 5	74	< 2	< 1	74,000	< 10	< 10	< 1	NA	210	< 3	160,000	410	< 0.2	< 20	3,700	< 5	< 1	180,000	< 1	< 10	< 20	1,280
	08/10/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,160
DUP0810042A	08/10/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,260
	05/26/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,270
DUP0527041A	05/26/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,220
1349MW102CL	05/26/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,100
	03/10/04	< 100	< 1	< 5	83	< 2	< 1	73,000	< 10	< 10	< 1	NA	290	< 3	160,000	430	< 0.2	< 20	3,400	< 5	< 1 UJ	160,000	< 1	< 10	< 20	1,150
DUP0310041A	03/10/04	< 100	< 1	< 5	81	< 2	< 1	77,000	< 10	< 10	< 1	NA	260	< 3	160,000	400	< 0.2	< 20	3,300	< 5	< 1 UJ	170,000	< 1	< 10	< 20	1,280
1349MW102CL	03/10/04	< 100	< 5	5.6	77	< 1	< 1	76,000	< 10	< 7	< 10	NA	640	< 3	170,000	420	< 0.2	< 10	3,600	< 5	< 1	170,000	< 2	< 10	< 20	1,100 QB01
	12/10/03	< 100	< 1	< 5	69	< 2	< 1	77,000	< 10	< 10	< 1	NA	420	< 3	160,000	550	< 0.2	< 20	3,800	< 5 R	< 1	160,000	< 1	< 10	< 20 UJ	1,260
DUP1210031A	12/10/03	< 100	1.8	< 5	72	< 2	< 1	80,000	< 10	< 10	1	NA	460	< 3	170,000	600	< 0.2	< 20	4,000	< 5 R	< 1	170,000	< 1	< 10	< 20 UJ	1,090
	08/12/03	< 100	2.7	< 5 UJ	34	< 2	< 1	100,000	< 10 UJ	< 10	< 1	NA	390	< 3	180,000	550	< 0.2	< 20	6,400	< 5	< 1 UJ	190,000	< 1	< 10	< 20 UJ	1,430
	06/09/03	< 100	< 1	< 5	31	< 2	< 1	100,000	< 10	< 10	< 1	NA	210	< 3	190,000	440	< 0.2	< 20	9,800	< 5	< 1 UJ	230,000	< 1	< 10	< 20	1,620
DUP0609032A	06/09/03	< 100	2.9	< 5	32	< 2	< 1	98,000	< 10	< 10	< 1	NA	260	< 3	200,000	450	< 0.2	< 20	9,600	< 5	< 1 UJ	220,000	< 1	< 10	< 20	1,630
1349MW102CL	06/09/03	< 100	< 5	7.3	31	< 1	< 1	110,000	< 5	1.4	< 5	NA	530	< 3	180,000	340	< 0.2	7.4	11,000	< 5	< 1	240,000	< 2	< 10	23	1,900 HT-RA,J-
1349MW103	02/28/07	< 100	< 1	< 5	48	< 2	< 1	92,000	< 10	< 10	< 1	NA	< 100	< 3	480,000	340	< 0.2	**210**	4,500	< 5	< 1	250,000	< 1	< 10	< 20	2,330
	03/09/06	< 100	< 1	< 5	26 J	< 2	< 1	74,000	< 10	< 10	< 1	NA	270 J	< 3	330,000	310	< 0.2	< 400	5,400 J	< 5	< 1	200,000	< 1	< 10	< 20	2,220
	03/23/05	< 100	< 1	< 5	21	< 2	< 1	75,000	< 10	< 10	< 1	NA	390	< 3	290,000	380	0.31	**150**	5,600	< 5	< 1	180,000	< 1	< 10	< 20	1,320
	03/15/04	< 100	< 1	< 5	11 J-	< 2	< 1	88,000	< 10	< 10	1.2	NA	210	< 3	320,000	280	< 0.2	**180**	6,800	< 5	< 1	200,000	< 1	< 10	< 20	1,650
	12/03/03	< 100	< 1	< 5	< 10	< 2	< 1	75,000	< 10	< 10	1	NA	360	< 3	250,000	260	< 0.2	**110**	7,800	< 5	< 1 UJ	190,000	< 1	< 10	< 20	1,450
DUP1203032A	12/03/03	< 100	3.6	< 5	< 10	< 2	< 1	74,000	< 10	< 10	< 1	NA	370	< 3	250,000	250	< 0.2	100	7,500	< 5	< 1 UJ	190,000	< 1	< 10	< 20	1,440
	08/12/03	< 100	2.2	< 5 UJ	< 10	< 2	< 1	72,000	< 10 UJ	< 10	< 1	NA	270	< 3	240,000	190	< 0.2	100	8,400	< 5	< 1 UJ	190,000	< 1	< 10	< 20 UJ	1,590
	06/05/03	< 100	3	< 5	17	< 2	< 1	72,000	< 10	< 10	1	NA	170	< 3	190,000	160	< 0.2	42	13,000	< 5	< 1	190,000	< 1	< 10	< 20	1,520
1349MW104	02/28/07	< 100	< 1	< 5	96	< 2	< 1	84,000	< 10	< 10	< 1	NA	< 100	< 3	350,000	210	< 0.2	< 20	2,600	< 5	< 1	260,000	< 1	< 10	< 20	2,000
	03/09/06	< 100	< 1	< 5	100 J	< 2	< 1	75,000	25	< 10	< 1	NA	180 J	< 3	290,000	130	< 0.2	< 20	2,700 J	< 5	< 1	240,000	< 1	< 10	< 20	2,090
	03/23/05	< 100	< 1	< 5	78	< 2	< 1	75,000	< 10	< 10	< 1	NA	410	< 3	260,000	300	< 0.2	< 20	2,500	< 5	< 1	230,000	< 1	< 10	< 20	2,200
	03/15/04	< 100	< 1	< 5	49 J-	< 2	< 1	82,000	40	< 10	1.5	NA	190	< 3	320,000	56	< 0.2	< 20	4,200	< 5	< 1	280,000	< 1	< 10	< 20	1,800
	12/02/03	< 100	2.2	5.8	38	< 2	< 1	65,000	49	< 10	1.4	NA	280	< 3	280,000	80	< 0.2	< 20	4,800	< 5	< 1 UJ	240,000	< 1	< 10	< 20	780
	08/12/03	< 100	2.3	6 J+	35	< 2	< 1	73,000	12 J	< 10	< 1	NA	360	< 3	260,000	530	< 0.2	< 20	5,800	< 5	< 1 UJ	240,000	< 1	< 10	< 20 UJ	1,000
	06/06/03	< 100	1.5	< 5	50	< 2	< 1	76,000	< 10	< 10	< 1	NA	190	< 3	260,000	970	< 0.2	32	8,300	< 5	< 1	270,000	< 1	< 10	< 20	1,870

Table A-5-7
Results of Dissolved Metals Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium [2]	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method [1]	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Level [3]		**--**	**6**	**10**	**1,000**	**4**	**5**	**--**	**50**	**140**	**1,000**	**21**	**--**	**15**	**--**	**--**	**2**	**100**	**--**	**50**	**50**	**--**	**2**	**15**	**5,000**	**--**
1349MW105	02/28/07	< 100	< 1	**11**	41	< 2	< 1	68,000	< 10	< 10	< 1	NA	110	< 3	150,000 J	200	< 0.2	< 20	6,700	< 5	< 1	110,000	< 1	< 10	< 20	1,090
	03/20/06	< 100	1.4	10	47	< 2	< 1	56,000	< 10	< 10	< 1	NA	130	< 3	140,000	210	< 0.2	< 20	9,100	< 5	< 1	110,000	< 1	< 10	< 20	960
	03/23/05	< 100	1.5	**11**	39	< 2	< 1	71,000	< 10	< 10	3.2	NA	420	< 3	160,000	210	< 0.2	< 20	8,900	< 5	< 1	120,000	< 1	< 10	< 20	1,410
	03/15/04	< 100	1.5	**12**	47 J-	< 2	< 1	86,000	< 10	< 10	1.1	NA	360	< 3	180,000	310	< 0.2	< 20	11,000	< 5	< 1	150,000	< 1	< 10	< 20	1,260
	12/02/03	< 100	1.7	10	36	< 2	< 1	75,000	11	< 10	< 1	NA	600	< 3	160,000	340	< 0.2	< 20	13,000	< 5	< 1 UJ	140,000	< 1	< 10	< 20	850
	08/12/03	< 100	2.5	**12 J+**	54	< 2	< 1	79,000	< 10 UJ	< 10	< 1	NA	590	< 3	150,000	380	< 0.2	< 20	15,000	< 5	< 1 UJ	160,000	< 1	< 10	< 20 UJ	920
	06/09/03	< 100	4.5	10	41	< 2	< 1	82,000	< 10	< 10	< 1	NA	440	< 3	180,000	350	< 0.2	< 20	16,000	< 5	< 1 UJ	200,000	< 1	< 10	< 20	1,480

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Results of Army and Trust studies support the hypothesis that dissolved chromium and hexavalent chromium measured in groundwater in upland areas of the Presidio appear to be naturally occurring and derived from serpentinite. Hexavalent chromium was not retained as a COC in the *Final CAP* (BBL, 2006).
3 - Groundwater cleanup levels were taken from the *Final Corrective Action Plan Building 1349 Study Area, Presidio of San Francisco, California* (BBL, 2006).
Groundwater samples collected from all site monitoring wells were field filtered and analyzed for dissolved metals.
-- cleanup level not established
µg/L - micrograms per liter
mg/L - milligrams per liter
NA - Not analyzed
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

A-5-8
Groundwater Elevation Summary
Building 1349 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1349MW01	06/04/07	25.71	300.44	274.73	MW
	02/26/07	24.80	300.44	275.64	MW
	12/04/06	24.19	300.44	276.25	MW
	08/14/06	22.79	300.44	277.65	MW
	05/22/06	21.54	300.44	278.90	MW
	03/06/06	23.25	300.44	277.19	MW
	11/28/05	26.34	300.44	274.10	MW
	08/29/05	24.94	300.44	275.50	MW
	05/23/05	24.47	300.44	275.97	MW
	03/14/05	25.16	300.44	275.28	MW
	12/13/04	29.14	300.44	271.30	MW
	08/09/04	28.88	300.44	271.56	MW
	05/24/04	27.78	300.44	272.66	MW
	03/08/04	26.84	300.44	273.60	MW
	12/01/03	29.38	300.44	271.06	MW
	08/11/03	27.91	300.44	272.53	MW
	06/02/03	28.33	300.44	272.11	MW
	03/10/03	28.19	300.44	272.25	MW
	12/02/02	29.61	300.44	270.83	MW
	08/26/02	28.69	300.44	271.75	MW
	05/28/02	28.38	300.44	272.06	MW
	03/04/02	27.70	300.44	272.74	MW
	11/26/01	29.76	300.44	270.68	MW
	08/27/01	30.17	300.44	270.27	MW
	05/08/01	29.45	300.44	270.99	MW
1349MW02	06/04/07	29.67	311.22	281.55	MW
	02/26/07	28.90	311.22	282.32	MW
	12/04/06	29.88	311.22	281.34	MW
	08/14/06	27.25	311.22	283.97	MW
	05/22/06	23.43	311.22	287.79	MW
	03/06/06	27.87	311.22	283.35	MW
	11/28/05	33.35	311.22	277.87	MW
	08/29/05	32.03	311.22	279.19	MW
	05/23/05	30.25	311.22	280.97	MW
	03/14/05	32.08	311.22	279.14	MW
	12/13/04	36.85	311.22	274.37	MW
	08/09/04	35.38	311.22	275.84	MW
	05/24/04	34.20	311.22	277.02	MW
	03/08/04	34.14	311.22	277.08	MW
	12/01/03	36.66	311.22	274.56	MW
	08/11/03	35.46	311.22	275.76	MW
	06/02/03	35.03	311.22	276.19	MW
	03/10/03	35.46	311.22	275.76	MW
	12/02/02	36.98	311.22	274.24	MW
	08/26/02	35.94	311.22	275.28	MW
	05/28/02	34.95	311.22	276.27	MW
	03/04/02	35.54	311.22	275.68	MW
	11/26/01	37.75	311.22	273.47	MW
	08/27/01	36.79	311.22	274.43	MW
	05/08/01	35.47	311.22	275.75	MW
1349MW03	08/26/02	28.63	300.54	271.91	MW
	05/28/02	26.64	300.54	273.90	MW
	03/04/02	25.20	300.54	275.34	MW
	11/26/01	30.67	300.54	269.87	MW
	08/27/01	29.65	300.54	270.89	MW
	05/08/01	26.56	300.54	273.98	MW

A-5-8
Groundwater Elevation Summary
Building 1349 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1349MW03R	06/04/07	26.64	304.13	277.49	MW
	02/26/07	24.66	304.13	279.47	MW
	12/04/06	26.50	304.13	277.63	MW
	08/14/06	24.67	304.13	279.46	MW
	05/22/06	20.40	304.13	283.73	MW
	03/06/06	22.56	304.13	281.57	MW
	11/28/05	29.81	304.13	274.32	MW
	08/29/05	28.52	304.13	275.61	MW
	05/23/05	25.29	304.13	278.84	MW
	03/14/05	23.29	304.13	280.84	MW
	12/13/04	32.69	304.13	271.44	MW
	08/09/04	30.88	304.13	273.25	MW
	05/24/04	29.40	304.13	274.73	MW
	03/08/04	28.43	304.13	275.70	MW
	12/01/03	33.33	304.13	270.80	MW
	08/11/03	31.69	304.13	272.44	MW
	06/02/03	30.48	304.13	273.65	MW
1349MW100	06/04/07	27.73	309.60	281.87	MW
	02/26/07	26.81	309.60	282.79	MW
	12/04/06	28.01	309.60	281.59	MW
	08/14/06	25.37	309.60	284.23	MW
	05/22/06	22.79	309.60	286.81	MW
	03/06/06	25.73	309.60	283.87	MW
	11/28/05	31.42	309.60	278.18	MW
	08/29/05	30.12	309.60	279.48	MW
	05/23/05	28.03	309.60	281.57	MW
	03/14/05	29.70	309.60	279.90	MW
	12/13/04	34.85	309.60	274.75	MW
	08/09/03	33.11	309.60	276.49	MW
	05/24/04	32.05	309.60	277.55	MW
	03/08/04	31.63	309.60	277.97	MW
	12/01/03	34.42	309.60	275.18	MW
	08/11/03	32.98	309.60	276.62	MW
	06/02/03	32.75	309.60	276.85	MW
	03/10/03	33.30	309.60	276.30	MW
	12/02/02	34.67	309.60	274.93	MW
1349MW101	06/04/07	26.66	311.63	284.97	MW
	02/26/07	25.12	311.63	286.51	MW
	12/04/06	27.49	311.63	284.14	MW
	08/14/06	22.75	311.63	288.88	MW
	05/22/06	19.51	311.63	292.12	MW
	03/06/06	24.59	311.63	287.04	MW
	11/28/05	31.66	311.63	279.97	MW
	08/29/05	30.78	311.63	280.85	MW
	05/23/05	28.65	311.63	282.98	MW
	03/14/05	23.87	311.63	287.76	MW
	12/13/04	33.44	311.63	278.19	MW
	08/09/04	32.10	311.63	279.53	MW
	05/24/04	32.23	311.63	279.40	MW
	03/08/04	32.90	311.63	278.73	MW
	12/01/03	35.25	311.63	276.38	MW
	08/11/03	34.14	311.63	277.49	MW
	06/02/03	33.59	311.63	278.04	MW

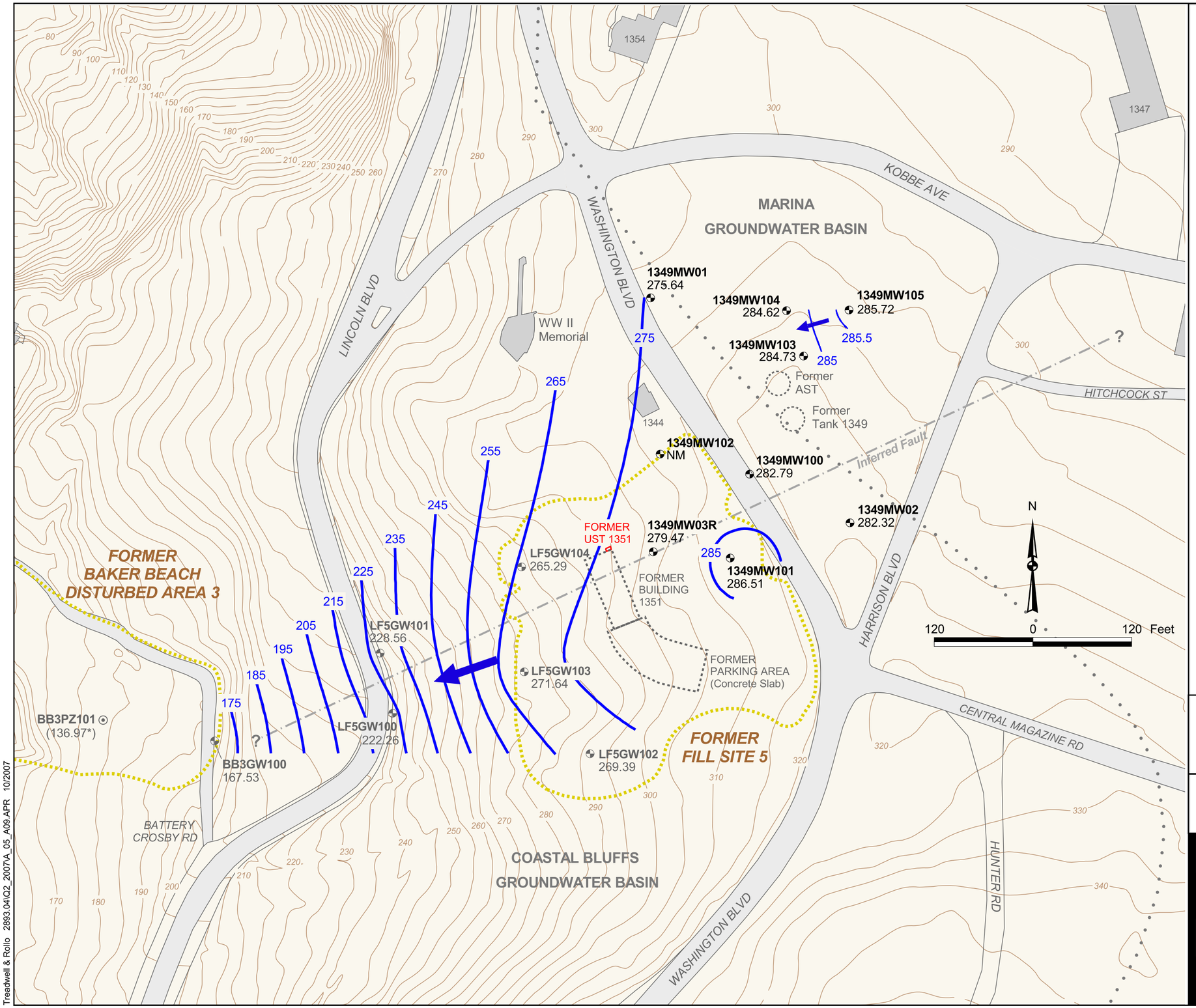
A-5-8
Groundwater Elevation Summary
Building 1349 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1349MW102	06/04/07	NM	305.68	NM	MW
	02/26/07	NM	305.68	NM	MW
	12/04/06	Buried	305.68	NM	MW
	08/14/06	17.90	305.68	287.78	MW
	05/22/06	15.12	305.68	290.56	MW
	03/06/06	19.66	305.68	286.02	MW
	11/28/05	25.02	305.68	280.66	MW
	08/29/05	23.67	305.68	282.01	MW
	05/23/05	23.33	305.68	282.35	MW
	03/14/05	23.95	305.68	281.73	MW
	12/13/04	28.35	305.68	277.33	MW
	08/09/04	26.89	305.68	278.79	MW
	05/24/04	25.68	305.68	280.00	MW
	03/08/04	25.62	305.68	280.06	MW
	12/01/03	28.17	305.68	277.51	MW
	08/11/03	26.96	305.68	278.72	MW
	06/02/03	26.51	305.68	279.17	MW
1349MW103	06/04/07	33.76	318.07	284.31	MW
	02/26/07	33.34	318.07	284.73	MW
	12/04/06	33.11	318.07	284.96	MW
	08/14/06	31.11	318.07	286.96	MW
	05/22/06	30.57	318.07	287.50	MW
	03/06/06	32.97	318.07	285.10	MW
	11/28/05	37.30	318.07	280.77	MW
	08/29/05	36.04	318.07	282.03	MW
	05/23/05	34.70	318.07	283.37	MW
	03/14/05	37.18	318.07	280.89	MW
	12/13/04	40.93	318.07	277.14	MW
	08/09/04	39.49	318.07	278.58	MW
	05/24/04	38.40	318.07	279.67	MW
	03/08/04	38.75	318.07	279.32	MW
	12/01/03	40.69	318.07	277.38	MW
	08/11/03	39.51	318.07	278.56	MW
	06/02/03	39.33	318.07	278.74	MW
1349MW104	06/04/07	30.57	314.58	284.01	MW
	02/26/07	29.96	314.58	284.62	MW
	12/04/06	30.74	314.58	283.84	MW
	08/14/06	28.19	314.58	286.39	MW
	05/22/06	24.50	314.58	290.08	MW
	03/06/06	29.33	314.58	285.25	MW
	11/28/05	34.07	314.58	280.51	MW
	08/29/05	32.83	314.58	281.75	MW
	05/23/05	31.42	314.58	283.16	MW
	03/14/05	33.73	314.58	280.85	MW
	12/13/04	37.65	314.58	276.93	MW
	08/09/04	36.23	314.58	278.35	MW
	05/24/04	35.18	314.58	279.40	MW
	03/08/04	35.76	314.58	278.82	MW
	12/01/03	37.43	314.58	277.15	MW
	08/11/03	36.27	314.58	278.31	MW
	06/02/03	35.96	314.58	278.62	MW

A-5-8
Groundwater Elevation Summary
Building 1349 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1349MW105	06/04/07	26.35	312.05	285.70	MW
	02/26/07	26.33	312.05	285.72	MW
	12/04/06	26.88	312.05	285.17	MW
	08/14/06	24.38	312.05	287.67	MW
	05/22/06	24.60	312.05	287.45	MW
	03/06/06	27.94	312.05	284.11	MW
	11/28/05	31.15	312.05	280.90	MW
	08/29/05	30.78	312.05	281.27	MW
	05/23/05	31.54	312.05	280.51	MW
	03/15/05	33.25	312.05	278.80	MW
	12/13/04	34.71	312.05	277.34	MW
	08/09/04	33.33	312.05	278.72	MW
	05/24/04	33.20	312.05	278.85	MW
	03/08/04	33.71	312.05	278.34	MW
	12/01/03	34.38	312.05	277.67	MW
	08/11/03	33.77	312.05	278.28	MW
	06/02/03	34.20	312.05	277.85	MW

Notes
1 - All depth to water measurements are an average of three measurements recorded in the field.
MW - Monitoring well
feet PLLW - feet above Presidio lower low water vertical datum



LEGEND

1349MW103 284.73	Groundwater Monitoring Well February 2007 Groundwater Elevation
BB3GW100 167.53	Adjacent Study Area Well February 2007 Groundwater Elevation
BB3PZ101 (136.97)*	Adjacent Study Area Piezometer February 2007 Groundwater Elevation
(136.97)*	Dry Well. Value Indicates Bottom of Casing Elevation in Feet PLLW
NM	Not Measured
	Approximate Direction of Groundwater Flow
	Groundwater Contours (Contour Interval : 10 ft) (Contour Interval : 0.5 ft)
	Former Fill Site 5 and Baker Beach Disturbed Area 3 Excavation Boundaries
	Inferred Fault
	Groundwater Basin Boundary
	Topographic Contour (Contour Interval : 5 ft)
1354	Building and Number

Notes:
Groundwater elevation data collected on 26 February 2007.

AST - Above ground Storage Tank
UST - Underground Storage Tank

Location of inferred fault from Revised Feasibility Study Main Installation Sites (EKI, 2003).

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

BUILDING 1349 SITE PLAN AND 26 FEBRUARY 2007 GROUNDWATER ELEVATION MAP

Treadwell&Rollo

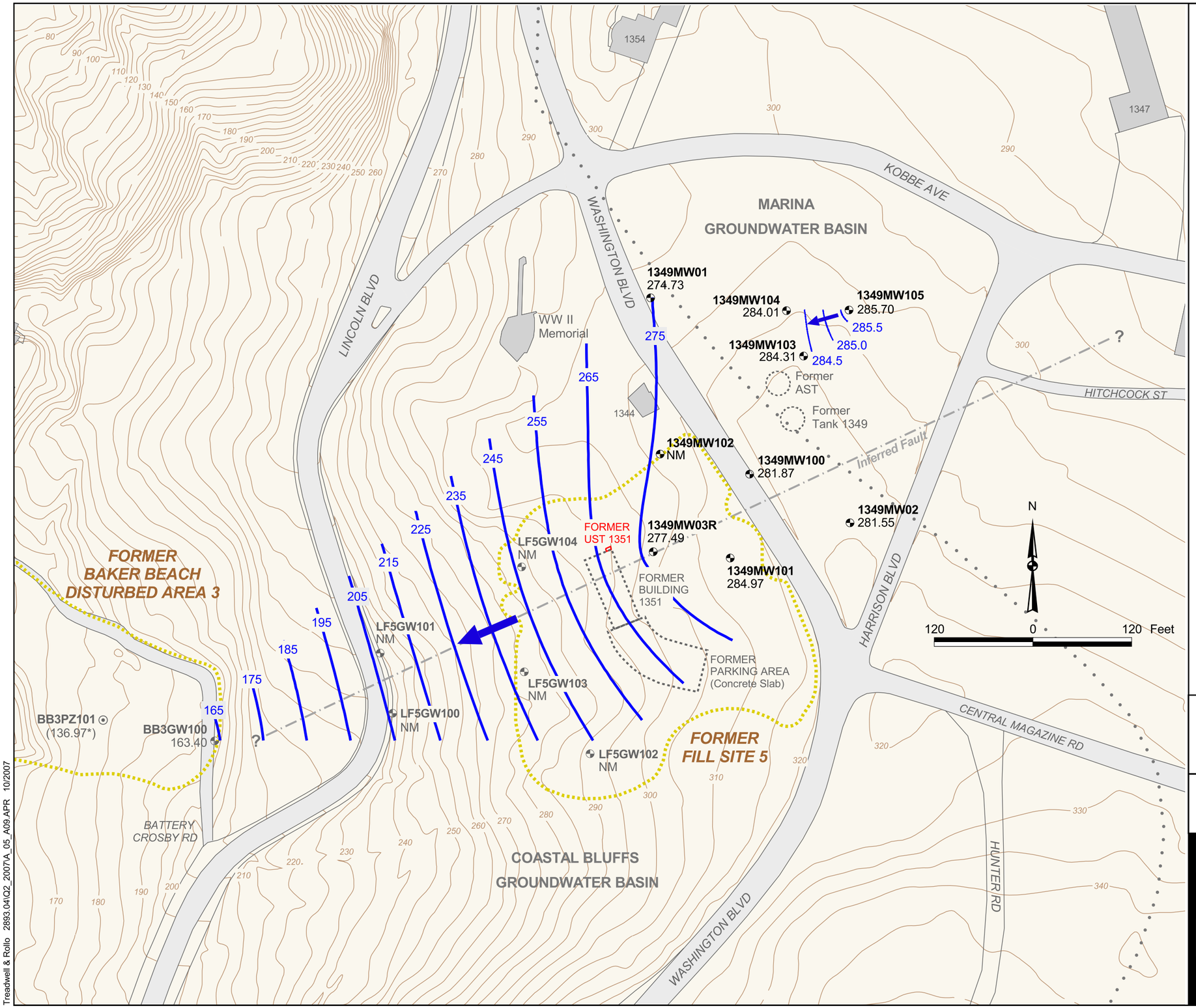
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October 2007

FIGURE A-5-1

Treadwell & Rollo 2893.04\Q2_2007\A_05_A09.APR 10/2007



LEGEND

1349MW103 284.31	Groundwater Monitoring Well June 2007 Groundwater Elevation
BB3GW100 163.40	Adjacent Study Area Well June 2007 Groundwater Elevation
BB3PZ101 (136.97)*	Adjacent Study Area Piezometer June 2007 Groundwater Elevation
(136.97)*	Dry Well. Value Indicates Bottom of Casing Elevation in Feet PLLW
NM	Not Measured
	Approximate Direction of Groundwater Flow
	Groundwater Contours (Contour Interval : 10 ft) (Contour Interval : 0.5 ft)
	Former Fill Site 5 and Baker Beach Disturbed Area 3 Excavation Boundaries
	Inferred Fault
	Groundwater Basin Boundary
	Topographic Contour (Contour Interval : 5 ft)
1354	Building and Number

Notes:
Groundwater elevation data collected on 4 June 2007.

AST - Above ground Storage Tank
UST - Underground Storage Tank

Location of inferred fault from Revised Feasibility Study Main Installation Sites (EKI, 2003).

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

BUILDING 1349 SITE PLAN AND 4 JUNE 2007 GROUNDWATER ELEVATION MAP

Treadwell&Rollo

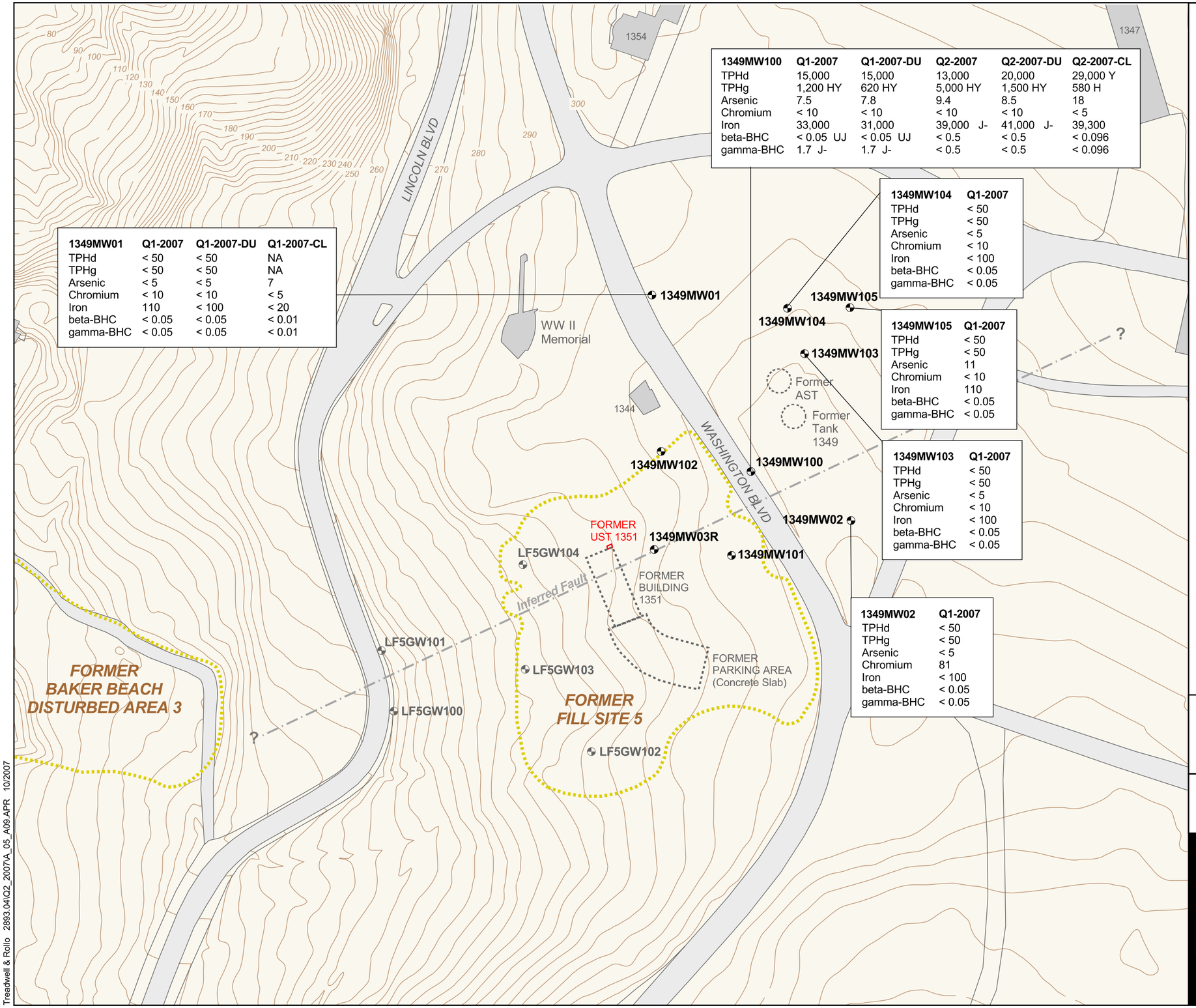
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FIGURE A-5-2

Treadwell & Rollo 2893.04\Q2_2007\A_05_A09.APR 10/2007



N

120 0 120 Feet

LEGEND

- **1349MW103** Groundwater Monitoring Well
- **LF5GW101** Adjacent Study Area Well
- Former Fill Site 5 Excavation Boundary
- Inferred Fault
- Topographic Contour (Contour Interval : 5 ft)
- 1354 Building and Number

Notes:
Groundwater concentration data in micrograms per liter (µg/L).

TPHd - Total Petroleum Hydrocarbons as Diesel
TPHg - Total Petroleum Hydrocarbons as Gasoline
CL - Quality Control Duplicate
DU - Blind Duplicate
NA - Not Analysed

AST - Above ground Storage Tank
UST - Underground Storage Tank

Refer to Table 11 for data qualifiers.

Location of inferred fault from Revised Feasibility Study Main Installation Sites (EKI, 2003).

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datum: (topography) North American Vertical Datum, NAVD88

BUILDING 1349
2007 CHEMICAL CONCENTRATION MAP

Treadwell&Rollo

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FIGURE A-5-3

Treadwell & Rollo 2893.04\Q2_2007\A_05_A09.APR 10/2007

First Quarter 2007

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1349 | Well No.: 1349mw01

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BR | Sampled by: BR | Date: 3-1-07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 40.55

Depth to Water (WL, ft. below TOC): 26.46

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: disp

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

— (Water Column Length) X — (Water Volume/ft) X — (No. Vols) = — gals CALCULATED PURGE VOLUME

Total Purge Time: —

Recharge Rate: —

Purge Rate: 0.5 gpm

4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: myron L / Hach 2100p / YSI DO orion ORP

Time	/	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
806	/	initial	7.4	10.0	pre 0.41	3457	pre 103.7	49	
809	/	1.5	7.3	11.2		3348		56	
812	/	3.0	7.5	11.0		3427		53	
815	/	4.5	7.5	10.8		3546		48	
	/			post	1.28	post	145.0		
	/								~~DTW = 42.88~~ in
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other baker

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3-1-07 / 820

Purging Equipment: Pump - Type: | Bailer - Type: disp | Other:

Sample Filtered: Y / No | Filtered Sample Analysis: metals

SAMPLING PROGRAM used 2 filters

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1349mw01	1x250 poly NP	CTT	2188	MS/MSD
	1x500 poly NP			
	500 HNO3			
	6 NP Amber / 6 HCl VOAs			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.
1349mw01	Dup030107 3A
	1349mw01CL split to CAS

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1349 | Well No.: 1349mw02

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BR | Sampled by: BR | Date: 2-28-07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 46.30

Depth to Water (WL, ft. below TOC): 29.05

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: disp

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

— (Water Column Length) X — (Water Volume/ft) X — (No. Vols) = gals CALCULATED PURGE VOLUME

Total Purge Time: —

Recharge Rate: —

Purge Rate: 0.5 gpm

4.5 gals ACTUAL PURGE VOLUME

YSI, PID

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron L / Hach 2100p / Orion ORP

Time	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm) / µS	ORP (mV)	Turbidity (NTU)	Comments
1050	initial	6.13	10.8	0.89 pre	4597	62.5 pre	14	
1053	1.5	6.12	11.7		4550		10	
1056	3.0	5.87	12.2		4490		9	
1059	4.5	5.79	11.8		4535		10	
			post	1.26	post	69.7		

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other baker tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 2-28-07 / 1105

Purging Equipment: Pump - Type: Bailer - Type: disp Other:

Sample Filtered: Yes / No Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1349mw02	1x 1500 Poly NP	CTT	2182	
	1x 1500 HNO3			
	6x 1 Liter Amber NP			
	6x HCl VOAs			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1349 | Well No.: 1349mw100
Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: BR | Sampled by: BR | Date: 3-1-07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [X] [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 34.50
Depth to Water (WL, ft. below TOC): 33.69
Depth to free phase (FP, ft. below TOC):

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: disp
[ ] Normal [ ] Pump \ Type:
[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):
[ ] Near Bottom Depth (ft):
[ ] Other:

PURGE VOLUME CALCULATION

( ) Water Column Length x ( ) Water Volume/ft x ( ) No. Vols = ( ) gals CALCULATED PURGE VOLUME

Total Purge Time: ( )
Recharge Rate: ( )
Purge Rate: 0.5 gpm

4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: myron L. / Hach 2100P / YSI D.O. orion ORP

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm) µS	ORP (mV)	Turbidity (NTU)	Comments
1108 / initial	5.31	10.3	pre 0.32	4069	pre 146.3	209	
1111 / 1.5	5.55	12.10		4004		227	
1114 / 3.0	5.54	11.8		3970		544	
1117 / 4.5	5.68	11.7		4189		718	
/		post	0.81	post	154.0		
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other baker tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3-1-07 / 1120

Purging Equipment: Pump - Type: Bailer - Type: disp Other:

Sample Filtered: (Yes) / No Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1349mw100	1 500 ml poly / 250 ml poly	CTT	2188	
	500 HNO3			
	6 x Amber Lit. NP			
	6 HCl VOA			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.
1349mw-100	D4P030107 3B

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell & Rollo
Environmental and Geotechnical Consultants

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1349 | Well No.: 1349 MW103
Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: BR | Sampled by: BR | Date: 2-28-07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 49.65
Depth to Water (WL, ft. below TOC): 38.02
Depth to free phase (FP, ft. below TOC):

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: disp
[ ] Normal [ ] Pump \ Type:
[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):
[ ] Near Bottom Depth (ft):
[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length ( ) x Water Volume/ft ( ) x No. Vols ( ) = gals CALCULATED PURGE VOLUME

Total Purge Time:
Recharge Rate:
Purge Rate: 0.5 gpm

4.5 gals ACTUAL PURGE VOLUME

YSI DO

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: myron L. / Hach / orion orp

Time	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1340	Initial	6.27	10.9	pre 0.19	4572	pre 68.0	29	
1343	1.5	5.99	12.1		4596		24	
1346	3.0	5.92	12.1		4711		30	
1349	4.5	5.89	12.0		4821		32	
			post	1.22	post	65.4		

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other baker tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 2-28-07 / 1355

Purging Equipment: Pump - Type: Bailer - Type: disp Other:

Sample Filtered: Yes / No Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1349mw103	1x 500 ml NP	CTT	2182	
	1x 500 HNO3			
	6x 1 liter Amber NP			
	6x HCl VOA			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1349 | Well No.: 1349mw104
Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: BR | Sampled by: BR | Date: 2-28-07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 44.90
Depth to Water (WL, ft. below TOC): 34.78
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: disp
[ ] Normal [ ] Pump \ Type:
[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):
[ ] Near Bottom Depth (ft):
[ ] Other:

PURGE VOLUME CALCULATION

— (Water Column Length) x — (Water Volume/ft) x — (No. Vols) = gals CALCULATED PURGE VOLUME

Total Purge Time: —
Recharge Rate: —
Purge Rate: 0.5 gpm

4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: myron L. / Hach / YSI 9.0 orion ORP

Time / Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm) (uS)	ORP (mV)	Turbidity (NTU)	Comments
1245 / initial	6.18	10.1	pre 1.66	3810	pre 65.7	18	
1248 / 1.5	6.17	10.9		3684		18	
1251 / 3.0	6.13	11.1		3788		14	
1254 / 4.5	6.12	10.8		3792		12	
/		post	1.90		post 62.5		
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other baker tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 2-28-07 1300

Purging Equipment: Pump - Type: Bailer - Type: disp Other:

Sample Filtered: Yes / No Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1349mw104	1x 500ml poly NP	CAT	2182	
	1x 500 HNO3			
	6x 1 liter Amber NP			
	6x HCl VOAs			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1349 | Well No.: 1349 MW105

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BR | Sampled by: BR | Date: 2-28-07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 43.90

Depth to Water (WL, ft. below TOC): 36.85

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type: disp

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

— (Water Column Length) X — (Water Volume/ft) X — (No. Vols) = gals CALCULATED PURGE VOLUME

Total Purge Time: —

Recharge Rate: —

Purge Rate: 0.5 gpm

4.5 gals ACTUAL PURGE VOLUME

YSI DO

Meter Type: myron L. / Hach / orion ORP

GROUNDWATER PARAMETER MEASUREMENTS

Time /	Liters or ~~Gallons~~	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm) us	ORP (mV)	Turbidity (NTU)	Comments
1432 /	initial	6.45	11.2	pre 0.28	2092	pre 100.3	40	
1435 /	1.5	6.24	12.3		2003		53	
1438 /	3.0	6.16	12.3		2132		61	
1441 /	4.5	6.18	12.0		2185		64	
/			post	0.89	post	96.2		
/								
/								
/								
/								
/								
/								
/								
/								
/								
/								
/								

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other: baker tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 2-28-07 / 1445

Purging Equipment: Pump - Type: d | Bailer - Type: disp. | Other:

Sample Filtered: (Yes) / No | Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1349MW105	1 x 500 NP poly	C+T	2182	
	1x 500 HNO3			
	6x 1 liter Amber			
	6x HCl VOA			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell & Rollo
Environmental and Geotechnical Consultant

Second Quarter 2007

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Building 1349 | Well No.: 1349mw100

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BP | Sampled by: BP | Date: 6-6-07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): --

Depth to Water (WL, ft. below TOC): 27.73

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: disp

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[X] Near top Depth (ft): 28'

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length: ____ X Water Volume/ft: ____ X No. Vols: ____ = ____ gals CALCULATED PURGE VOLUME

Total Purge Time: 18 min

Recharge Rate: ____ Purge Rate: 0.5 gpm

____ gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron Ultra; Horiba U-22 for DO and ORP

Time	/	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND mS/cm	ORP (mV)	Turbidity (NTU)	Comments
824	/	Initial	6.A	14.0	1.02	3813		8	Odor
827	/	1 gal	6.24	14.8		3862		96	DTW=29.10
830	/	2 gal	6.31	14.8		3934		217	DTW=30.32
833	/	3 gal	6.32	14.8		3998		>1000	Sheen
836	/	4	6.33	14.9		4081		>1000	DTW=31.88
839	/	5	6.32	14.9		4127		>1000	DTW=33.49
842	/	6	6.34	14.9	0.26	4146	63	>1000	DTW=35.40
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments: ____ Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6-6-07 / 850

Purging Equipment: Pump - Type: ____ Bailer - Type: disp Other: ____

Sample Filtered: (Yes) / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1349mw100	6 x 40 mL vials	CAT	2161	
	3 x 1 L amb			
	2 x 500 mL			
	1 x 250 mL			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.
1349mw100	DUP060607 3A
	1349mw100CL (CAS)

Blank Samples

Type	Sample No.
Trip	TB060607 3A
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
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FILL SITE 1, LANDFILL 2, EL POLIN SPRING
TENNESSEE HOLLOW, AND UPGRADIENT WELLS
APPENDIX SECTION A-6
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2007
Presidio of San Francisco, California

1.0 INTRODUCTION AND BACKGROUND

The Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, and Upgradient Wells area monitoring wells are located in the southeastern portion of the Presidio (Figure 1). Fill Site 1 is north of the Julius Kahn Public Playground. The site vicinity includes the El Polin Spring picnic area and the El Polin Spring sampling location (Figure A-6-1). The elevation at Fill Site 1 ranges from approximately 100 to 150 feet above the PLLW datum (Montgomery Watson, 1996c). The elevation at Landfill 2 ranges from approximately 140 to 240 feet above the PLLW datum. The Tennessee Hollow and the Upgradient Wells area monitoring wells have surface elevations ranging from approximately 45 to 110 feet and 170 to 265 feet above the PLLW datum, respectively.

Debris fill materials were disposed in Fill Site 1 from 1948 until 1973. Landfill 2 was in operation from 1946 to 1973 and was used for disposal of building debris and other wastes (Dames and Moore, 1997; Ringden and Sitton, 1990). Potential sources of contamination exist in fill materials disposed at both Fill Site 1 and Landfill 2. The Upgradient Area and Tennessee Hollow wells are currently being used to monitor groundwater elevations only, and are not sampled.

Groundwater sampling began in November 1990 at Fill Site 1 and Landfill 2. Groundwater samples have been analyzed for some or all of the following: general chemistry parameters, VOCs, SVOCs, OCPs, PCBs, chlorinated herbicides, TPH, dissolved metals, and cyanide. No OCPs, PCBs or chlorinated herbicides have ever been detected in any of the monitoring wells currently being monitored at the site. A summary of historical groundwater analytical results can be found in Tables A-6-1 through A-6-4.

2.0 SITE DESCRIPTION AND GEOLOGY

Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, and Upgradient Wells Areas are located within the Northeastern Groundwater Area of the Marina Groundwater Basin (Figure 1). Groundwater generally flows northward across the site towards the Crissy Field Groundwater Area (Montgomery Watson, 1996c).

Fill Site 1 and Landfill 2 have 10 associated monitoring wells (LF01GW01 through LF01GW07, and LF02GW01, LF02GW02, and LF02GW04) and one surface water sampling location (EPSP01) (Figure A-6-1). The Tennessee Hollow Area has four monitoring wells (TH-1, TH-2, TH-3, and TH-4), and the Upgradient Wells Area has five monitoring wells (UBR01GW01, UBR02GW01, UBR02GW02, UBR03GW01, and UBR03GW02). Three additional monitoring wells (10GW100, 300GW01 and PGFGW100) located near Building 10, the Presidio Golf Course, and Paul Goode Field are monitored for groundwater elevation on a quarterly basis. Two monitoring wells (100GW101 and 104GW100) were installed adjacent to Buildings 100 and 104 in October 2002. These two wells have had four consecutive quarters of non-detect sampling results and therefore were removed from the sampling schedule beginning with the Second Quarter 2004.

The Northeastern Groundwater Area is covered with grasses, annual plants, and trees and is occupied by Presidio housing. Fill Site 1 and Landfill 2 are located in the Tennessee Hollow Valley. The Landfill 2 site is approximately 300 feet west of Fill Site 1 (Figure A-6-1). Landfill 2 is in a hilly, densely forested area. Fill Site 1 contains fill from the ground surface to approximately 34 feet bgs. The fill at Fill Site 1 consists of sand and gravel with varying amounts of construction debris. The fill layer at Landfill 2 extends from the ground surface to 20 feet bgs. The fill material found in Landfill 2 consists of glassware, hospital debris, wood, and general construction debris. The fill layer at both sites is underlain by laterally bedded, fine-grained, silty sand of the Colma Formation. Serpentinite rock of the Franciscan Formation lies beneath the Colma Formation and was encountered at depths ranging from 40 to 79 feet bgs (Montgomery Watson, 1996c). The five Upgradient wells (UBR01GW01, UBR02GW01, UBR02GW02, UBR03GW01, and UBR03GW02) are screened in Franciscan Formation bedrock.

3.0 GROUNDWATER MONITORING

During the First Quarter 2007, groundwater elevations were measured at all monitoring wells. Groundwater samples were collected from Fill Site 1, Landfill 2, and from the El Polin Spring during the First Quarter 2007. No monitoring wells or El Polin Spring were scheduled for groundwater elevation measurements or sampling during the Second Quarter 2007.

The Tennessee Hollow and Upgradient monitoring wells were approved for removal from the program prior to the First Quarter 2007, due to relatively stable groundwater elevations and a large historical data set.

3.1 Groundwater-Level Measurements and Interpretation

Groundwater elevation measurements were collected on 26 February 2007. Groundwater elevations are summarized in Table A-6-5. Water level meters were calibrated on 26 February 2007 and the calibration forms can be found in Appendix B. Groundwater elevation field forms

can be found in Appendix C. Groundwater elevations were generally consistent with historical observations during the First Quarter 2007.

First Quarter 2007 groundwater elevations ranged from 75.57 to 154.84 feet above PLLW in monitoring wells LF01GW05 and LF02GW04, respectively. First Quarter 2007 groundwater elevation contours and flow directions for Fill Site 1 and Landfill 2 are included on Figure A-6-2. Groundwater was determined to flow in northerly from Fill Site 1 towards Tennessee Hollow at an approximate gradient of 0.04 feet per foot and in a northeasterly direction from Landfill 2 towards Tennessee Hollow at an approximate gradient of 0.10 feet per foot. Both groundwater flow directions follow the general topographic trend and are consistent with previous findings.

3.2 Monitoring Well Purging and Sampling

Groundwater samples were collected from all Fill Site 1 and Landfill 2 groundwater monitoring wells and a surface water sample, EPSP01, was collected from El Polin Spring during the First Quarter 2007 (Table 1A). The samples were collected in accordance with procedures described in the FSP (Treadwell & Rollo, 2001a). In accordance with the proposed sampling schedule (Table 1B), no Fill Site 1, Landfill 2 monitoring wells or El Polin Spring were sampled during the Second Quarter 2007.

Purge equipment, purging volumes, and sampling equipment for each monitoring well are described in the purge *records* located at the conclusion of this section. Purge water was stored for future disposal in one of two 2,800-gallon aboveground polyethylene storage tanks, which are located at the Central Magazine.

3.3 Groundwater Analytical Program

Groundwater and surface water samples collected were submitted to the project laboratory for the analyses shown in Table 1A of the main text. The appropriate sampling containers, preservatives, and maximum holding times for each analytical method are shown in Table 5. Sample containers used at each well are described in the purge records located at the conclusion of this section.

QA/QC samples were collected as part of this program. Section 6.2 of the main text discusses the QA/QC sampling and analysis performed during the First and Second Quarters 2007.

4.0 GROUNDWATER ANALYTICAL RESULTS

Groundwater samples collected from the Fill Site 1 and Landfill 2 areas during the First Quarter 2007 were analyzed for general water chemistry parameters, TDS, cyanide, and 22 dissolved metals. The surface water sample collected from El Polin Spring was analyzed for general water chemistry parameters, TDS, cyanide, 22 total metals, and 22 dissolved metals during the First

Quarter 2007, in accordance with the proposed sampling schedule (Tables 1A). No groundwater samples were collected during the Second Quarter 2007 (Table 1B).

4.1 Dissolved Oxygen

Dissolved oxygen results are presented in Table A-6-1. During the First Quarter 2007, dissolved oxygen was measured at concentrations ranging from 0.22 mg/L in well LF02GW04 to 4.44 mg/L in LF01GW06 and LF01GW07 which were generally within the historical range. During the First Quarter 2007, dissolved oxygen was measured in the El Polin Spring sample at a concentration of 7.60 mg/L which is within the historical concentration range.

Dissolved oxygen concentrations were measured using either a down-hole or in-line dissolved oxygen meter during the First Quarter 2007. A discussion of dissolved oxygen measurement procedures and data comparability can be found in Section 5.4.1 of the main report.

4.2 General Chemistry Results

General chemistry results for the First Quarter 2007 at Fill Site 1, Landfill 2, and the El Polin Spring were generally within historical ranges (Table A-6-1) and no significant detections were observed.

4.3 Cyanide Results

Cyanide was detected for the first time in the sample from monitoring well LF01GW04 during the First Quarter 2007 at the laboratory reporting limit of 0.01 mg/L. The detected concentration is below the cleanup level for cyanide (0.15 mg/L) listed in the Cleanup Level Document (EKI, 2002; Revised 2006).

Cyanide was previously detected on three occasions; at EPSP01 at 0.009 mg/L in 1994, at LF01GW01 at 0.02 mg/L in 2002, and at LF01GW02 at 0.01 mg/L in 2006. Cyanide will continue to be monitored within Fill Site 1 and Landfill 2 monitoring wells and at El Polin Spring on an annual basis. A summary of cyanide results for these areas are presented in Table A-6-1.

4.4 SVOC, PAH, OCP, PCB, Chlorinated Herbicides, and VOC Results

No SVOCs, PAHs, OCPs, PCBs, chlorinated herbicides, or VOC analyses were performed for any of the Fill Site 1 or Landfill 2 monitoring well or El Polin Spring samples during the First Quarter 2007. A summary of historical SVOC, PAHs, OCPs, PCBs, chlorinated herbicide, and VOC results for these areas are presented in Table A-6-2.

4.5 Dissolved Metals Results

Fill Site 1 and Landfill 2 groundwater samples and the El Polin Spring surface water samples collected during the First Quarter 2007 were analyzed for dissolved metals. A summary of dissolved metals results for these locations are presented in Table A-6-3.

Dissolved metals results for the First Quarter 2007 at Fill Site 1, Landfill 2, and El Polin Spring were generally within historical ranges. A few new high and/or low concentrations of dissolved metals were detected during the First Quarter 2007, but were only slightly outside the range of historical concentrations and therefore appear to be attributed to natural fluctuations and are not considered to be significant. The metals detected outside of historical bounds were calcium and magnesium within the El Polin Spring sample, EPSP01, and sodium within the sample collected from LF01GW01.

No dissolved metals cleanup levels were exceeded within Fill Site, 1 Landfill 2, or El Polin Spring samples during the First Quarter 2007.

4.6 Total Metals Results

During the First Quarter 2007, the surface sample collected at El Polin Spring was analyzed for total metals by EPA Methods 6010/6020. Total metals results are presented in Table A-6-3.

Several new high concentrations of total metals were detected within EPSP01 during the First Quarter 2007. Total aluminum, barium, calcium, chromium, copper, iron, magnesium, manganese, nickel, and sodium were detected at new high concentrations during the First Quarter 2007. Total metals concentrations are associated with the amount of sediment present in the collected water. Thus, the increase in total metal concentrations at El Polin Spring may be related to an increase in the amount of sediment present in the water at the time the spring was sampled.

4.7 Total Dissolved Solids Results

The concentrations of TDS measured at Fill Site 1, Landfill 2 and at El Polin Spring during the First Quarter 2007 are generally within the range of historically measured concentrations. A summary of TDS results is presented in Table A-6-3.

4.8 TPH Results

No TPH analyses were performed on any of the Fill Site 1 or Landfill 2 monitoring well or El Polin Spring samples during the First Quarter 2007. A summary of historical TPH results for these areas is presented in Table A-6-4.

5.0 CONCLUSIONS & RECOMMENDATIONS

Cyanide was detected at the laboratory's reporting limit of 0.01 µ/L for the first time in the sample collected from monitoring well LF01GW04 during the First Quarter 2007. The detected concentration is below the cleanup level (0.15 mg/L) and is not considered to be significant.

Several new high concentrations of total metals were detected within the EPSP01 sampled collected during the First Quarter 2007, and may be associated with an increase in the amount of sediment in the El Polin Spring water at the time of sampling. No other significant trends were observed during the First Quarter 2007.

Table A-6-1
Results of General Chemistry and Cyanide Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	E335.2/ SW9010/ SW9012	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Cleanup Level [2]		--	--	**250**	**0.15**	--	--	--	--	--	--
EPSP01	02/28/07	360	360	92	< 0.01	7.60	< 0.1	1.2	< 0.05	NA	20
	03/16/06	330	330	85	< 0.01	7.05	< 0.1	1.1	< 0.05	NA	17
	11/30/05	NA	NA	NA	< 0.01	1.91	NA	NA	NA	NA	NA
DUP1130052A	11/30/05	NA	NA	NA	< 0.01	--	NA	NA	NA	NA	NA
EPSP01CL	11/30/05	NA	NA	NA	< 0.01	--	NA	NA	NA	NA	NA
	08/30/05	NA	NA	NA	< 0.01	1.2	NA	NA	NA	NA	NA
DUP0830052C	08/30/05	NA	NA	NA	< 0.01	--	NA	NA	NA	NA	NA
EPSP01CL	08/30/05	NA	NA	NA	< 0.01	--	NA	NA	NA	NA	NA
	05/26/05	NA	NA	NA	< 0.01	0.9	NA	NA	NA	NA	NA
DUP0526052B	05/26/05	NA	NA	NA	< 0.01	--	NA	NA	NA	NA	NA
EPSP01CL	05/26/05	NA	NA	NA	< 0.010 U	--	NA	NA	NA	NA	NA
	03/15/05	460	460	89	< 0.01	NM	< 0.1	1.2	< 0.05	NA	17
	12/15/04	NA	NA	NA	< 0.01	0.90	NA	NA	NA	NA	NA
DUP1215042B	12/15/04	NA	NA	NA	< 0.01	--	NA	NA	NA	NA	NA
EPSP01CL	12/15/04	NA	NA	NA	< 0.01 U	--	NA	NA	NA	NA	NA
	08/11/04	NA	NA	NA	< 0.01	NM	NA	NA	NA	NA	NA
DUP0811041B	08/11/04	NA	NA	NA	< 0.01	--	NA	NA	NA	NA	NA
EPSP01CL	08/11/04	NA	NA	NA	< 0.01	--	NA	NA	NA	NA	NA
	05/28/04	NA	NA	NA	< 0.01	6.2	NA	NA	NA	NA	NA
DUP0528041B	05/28/04	NA	NA	NA	< 0.01	--	NA	NA	NA	NA	NA
EPSP01CL	05/28/04	NA	NA	NA	< 0.005	--	NA	NA	NA	NA	NA
	03/15/04	310	310	90	< 0.01	6.83	< 0.1	1.4	< 0.05	NA	18
	12/05/03	NA	NA	NA	< 0.01	5.7	NA	NA	NA	NA	NA
DUP1205031B	12/05/03	NA	NA	NA	< 0.01	--	NA	NA	NA	NA	NA
EPSP01CL	12/05/03	NA	NA	NA	< 0.005	--	NA	NA	NA	NA	NA
	08/14/03	NA	NA	NA	< 0.01	5.7	NA	NA	NA	NA	NA
	06/06/03	NA	NA	NA	< 0.01	6.9	NA	NA	NA	NA	NA
	03/13/03	310	310	82	< 0.01	5.1	< 0.1	1.6	< 0.05	NA	16
	12/03/02	290	290	82	< 0.01	9.3	< 0.1	1.4 [3]	< 0.05	NA	17
	08/27/02	270	270	78	< 0.01	1.6	0.19	1.5	< 0.05	NA	16
	06/05/02	290	290	82	< 0.01 UJ	7	0.11	1.5	< 0.05	NA	17
	03/11/02	300	300	78	< 0.01	4.0	0.11	1.3	< 0.05	NA	17
	11/28/01	300	300	190	< 0.01	2.1	0.08 J	1.6 J	< 0.05 UJ	NA	18

Table A-6-1
Results of General Chemistry and Cyanide Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	E335.2/ SW9010/ SW9012	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Cleanup Level [2]		--	--	**250**	**0.15**	--	--	--	--	--	--
EPSP01	08/29/01	290	290	81	< 0.01	3.5	0.081 J	1.6	< 0.05	NA	17
	05/18/01	290	290	82	< 0.01	3.9	0.076 J	1.7	< 0.05	NA	17
	05/13/99	301	301	97	< 0.05	8.0	< 0.1	NA	NA	1.38 (J12)	18.4
	02/10/99	287	287	103	< 0.05	NM	< 0.1	NA	NA	1.52	31
	12/04/98	290	290	96	< 0.05	NM	0.118	NA	NA	1.62	18.6
	04/17/98	280	280	78	< 0.01	4.4	< 0.1	1.43	NA	1.33	14.3
	03/09/98	270	270	72	< 0.01	5.7	< 0.1	NA	NA	1.28	14.4
	01/08/98	282	282	77	< 0.01	NM	< 0.1	1.59	NA	1.45	14.6
	11/09/94	NA	295	85.3	0.009	NM	NA	0.187	NA	NA	NA
	09/04/92	240	NA	70	NA	NM	NA	NA	NA	1.9	13.4
	02/06/91	NA	320	NA	NA	NM	NA	NA	NA	1.6	NA
	11/13/90	NA	NA	63	NA	NM	0.806	NA	NA	NA	18
LF01GW01	02/28/07	310	310	41	< 0.01	0.90	< 0.1	4.9	< 0.05	NA	38
	03/08/06	310	310	52	< 0.01	0.53	< 0.1	5.5	< 0.05	NA	48
DUP0308063C	03/08/06	300	300	53	< 0.01	--	< 0.1	5.6	< 0.05	NA	48
LF01GW01CL	03/08/06	290	290	54.4	NA	--	< 1 U	5.93	< 0.02 U	NA	46.7
	03/15/05	250	250	53	< 0.01	0.10	< 0.1	4.1	< 0.05	NA	37
DUP0317051A	03/15/05	290	290	53	< 0.01	--	< 0.1	4.2	< 0.05	NA	38
LF01GW01CL	03/15/05	259	259	51.6	< 0.01 U	--	< 0.3 U	4.34	< 0.1 U	NA	37
	03/16/04	230	230	48	< 0.01	0.2	< 0.1	5.8	< 0.05	NA	43
	03/13/03	200	200	25	< 0.01	0.2	< 0.1	1.2	< 0.05	NA	31
	12/09/02	190	190	47	< 0.01	2.2	< 0.1	7.2	< 0.05	NA	32
DUP1209022D	12/09/02	190	190	48	0.02	--	< 0.1	7.2	< 0.05	NA	33
LF01GW01CL	12/09/02	190	190	45	< 0.005	--	0.14	7.3 J-	< 0.05 UJ	7.3 J-	37
	08/27/02	210 J-	210 J-	49	< 0.01	0.9	0.2	2.1	< 0.05	NA	39
	05/29/02	220	220	44	< 0.01	1.3	0.077 J	0.09	< 0.05	NA	40
	03/11/02	260	260	35	< 0.01	1.2	0.087 J	1.4	< 0.05	NA	49
DUP0311022A	03/11/02	270	270	35	< 0.01	--	0.099 J	1.4	< 0.05	NA	49
LF01GW01CL	03/11/02	250	250	39	< 0.01	--	< 1	1.4	< 1	NA	51
	11/27/01	190	190	30	< 0.01	2.5	0.12	6 J	< 0.05 UJ	NA	31
	08/28/01	200	200	29	< 0.01	3.0	0.13	2	< 0.05	NA	33
	05/16/01	260	260	57	< 0.01	6.2	0.099 J	1.6	< 0.05	NA	46

Table A-6-1
Results of General Chemistry and Cyanide Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	E335.2/ SW9010/ SW9012	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Cleanup Level [2]		--	--	**250**	**0.15**	--	--	--	--	--	--
LF01GW01	05/10/99	263	263	34	< 0.05	2.6	0.105	NA	NA	3.28 (J23)	53
	02/08/99	233	233	42	< 0.05	1.6	0.1	NA	NA	7.28	42
	11/09/98	241	241	45	< 0.1	5.4	< 0.1	NA	NA	4.27	46
	08/11/98	234	234	**299**	< 0.05	5.1	0.121	NA	NA	6.24	33
	04/09/98	300	300	30	< 0.05	2.4	0.11	NA	NA	2.1	39
	01/05/98	222	222	56	< 0.01	4.6	< 0.1	10.4	NA	9.04	38.8
	11/05/97	190	190	57	< 0.05	5.2	< 0.1	NA	NA	8.7	38
	08/06/97	230	230	47	NA	3.8	0.19	NA	NA	NA	40
	05/07/97	280	280	35	NA	4.2	0.17	NA	NA	2.2	42
	02/06/97	270	270	52	NA	4.6	0.14	NA	NA	9.3	41
	10/29/96	230	230	41	NA	NM	0.13	NA	NA	5.2	43
	08/01/96	260	260	36	NA	NM	0.14	NA	NA	3	49
	05/23/96	330	330	28	NA	NM	0.14	NA	NA	3	56
	03/08/96	248	248	57	NA	NM	0.352	10	NA	NA	45
	12/15/95	214	214	54	NA	NM	0.3	5.8	NA	NA	46
	09/13/95	260	260	38	NA	NM	< 0.25	NA	NA	1.5	63
	11/08/94	240	240	**466**	NA	NM	NA	5.84	NA	NA	55.1
	08/26/92	319	262	46	NA	NM	NA	NA	NA	2.0	109
	11/30/90	NA	NA	43	NA	NM	0.6	NA	NA	10.9	42
LF01GW02	02/28/07	260	260	61	< 0.01	3.42	< 0.1	12	< 0.05	NA	42
	03/16/06	280	280	100	0.01	0.61	< 0.1	10	< 0.05	NA	50
	03/15/05	290	290	100	< 0.01	0.90	< 0.1	5.6	< 0.05	NA	42
	03/16/04	330	330	130	< 0.01	0.3	< 0.1	6.4	< 0.05	NA	49
	03/13/03	310	310	91	< 0.01	0.1	< 0.1	6.9	< 0.05	NA	42
	12/03/02	260	260	70	< 0.01	4.0	< 0.1	6.7	< 0.05	NA	42
	08/27/02	280 J-	280 J-	44	< 0.01	2.9	0.19	5.3	< 0.05	NA	39
	05/29/02	320	320	81	< 0.01	1	0.084 J	5.8	< 0.05	NA	44

Table A-6-1
Results of General Chemistry and Cyanide Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	E335.2/ SW9010/ SW9012	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Cleanup Level [2]		--	--	**250**	**0.15**	--	--	--	--	--	--
LF01GW02	03/11/02	320	320	88	< 0.01	3.2	0.086 J	6.1	< 0.05	NA	43
	11/27/01	310	310	90	< 0.01	4	0.12	7 J	< 0.05 UJ	NA	42
	08/28/01	300	300	93	< 0.01	3	0.1	7.3	< 0.05	NA	43
DUP0828012A	08/28/01	300	300	93	< 0.01	--	0.081 J	7.3	< 0.05	NA	43
	05/17/01	300	300	84	< 0.01 UJ	5.3	0.12	6.6	< 0.05	NA	38
DUP0517011A	05/17/01	310	310	82	< 0.01 UJ	--	0.076 J	6.2	< 0.05	NA	38
	05/11/99	259	259	78	< 0.05	5.1	< 0.1	NA	NA	7.99	41
	02/09/99	187	187	110	< 0.05	5	< 0.1	NA	NA	6.82	28
	11/10/98	240	240	57	< 0.1	5.3	< 0.1	NA	NA	17.4	59
	08/12/98	244	244	46	< 0.05	7.5	0.109	NA	NA	8.81	339
	04/10/98	240	240	77	< 0.05	5.4	0.12	NA	NA	16	49
	01/06/98	250	250	63	< 0.01	5.3	< 0.1	9.89	NA	8.93	37.6
	11/04/97	240	240	56	< 0.05	5.2	< 0.1	NA	NA	13	49
	08/05/97	240	240	56	NA	5.3	0.2	NA	NA	NA	49
	05/06/97	250	250	79	NA	5.7	< 0.1	NA	NA	12	49
	02/04/97	250	250	66	NA	5.3	< 0.1	NA	NA	9.8	56
LF01GW02	10/29/96	260	260	58	NA	NM	0.15	NA	NA	17	58
	08/01/96	250	250	66	NA	NM	< 0.1	NA	NA	21 (J10)	61
	05/23/96	240	240	71	NA	NM	< 0.1	NA	NA	28	58
	03/08/96	212	212	62	NA	NM	0.305	32	NA	NA	62
	12/15/95	217	217	53	NA	NM	0.3	22	NA	NA	55
	09/13/95	250	250	73	NA	NM	< 0.25	NA	NA	13	59
	08/26/92	379	311	65	NA	NM	NA	NA	NA	7.7	40
	11/30/90	NA	NA	65	NA	NM	0.8	NA	NA	8.3	49
LF01GW03	02/28/07	380	380	86	< 0.01	0.94	< 0.1	5.4	< 0.05	NA	36
	03/20/06	380	380	86	< 0.01	0.71	< 0.1	4.9	< 0.05	NA	37
	03/15/05	300	300	110	< 0.01	0.90	< 0.1	4.8	< 0.05	NA	38
	03/17/04	360	360	120	< 0.01	1	< 0.1	4.9	< 0.05	NA	47
	03/13/03	370	370	110	< 0.01	0.8	< 0.1	5.2	< 0.05	NA	42
	12/03/02	340	340	84	< 0.01	3.7	< 0.1	6	< 0.05	NA	34
	08/27/02	350 J-	350 J-	82	< 0.01	2.1	0.2	6	< 0.05	NA	33

Table A-6-1
Results of General Chemistry and Cyanide Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	E335.2/ SW9010/ SW9012	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Cleanup Level [2]		--	--	**250**	**0.15**	--	--	--	--	--	--
LF01GW03	05/29/02	360	360	99	< 0.01	1.2	0.12	5.7	< 0.05	NA	36
	03/12/02	360	360	120	< 0.01	2.2	< 0.1 U	5.4	< 0.05	NA	45
	11/27/01	360	360	88	< 0.01	3.1	0.11	6.1 J	< 0.05 UJ	NA	35
	08/29/01	350	350	88	< 0.01	2.6	0.12	6.2	< 0.05	NA	34
	05/17/01	370	370	99	< 0.01 UJ	5.4	0.07 J	5.7	< 0.05	NA	43
	05/10/99	374	374	108	< 0.05	1.8	< 0.1	NA	NA	5.58	34
	02/08/99	365	365	130	< 0.05	1.2	< 0.1	NA	NA	6.97	94
	11/09/98	353	353	130	< 0.1	1.8	< 0.5	NA	NA	4.75	40
	08/11/98	340	340	96	< 0.05	3.5	< 0.1	NA	NA	5	25
	04/09/98	350	350	120	< 0.05	2.2	< 0.1	NA	NA	5.9	35
	01/05/98	346	346	83	< 0.01	3	< 0.1	5.11	NA	4.6	34.1
	11/05/97	340	340	84	< 0.05	1.5	< 0.1	NA	NA	5.2	31
	08/06/97	340	340	83	NA	2.5	0.17	NA	NA	NA	30
	05/07/97	350	350	97	NA	1.7	0.13	NA	NA	4.2	29
	02/05/97	340	340	100	NA	3.8	0.11	NA	NA	6.8	31
	10/30/96	350	350	100	NA	NM	0.12	NA	NA	6.4	33
	08/05/96	330	330	86	NA	NM	0.1	NA	NA	7.6	31
	05/22/96	350	350	91	NA	NM	0.13	NA	NA	7.7	28
	03/08/96	326	326	92	NA	NM	0.363	5.5	NA	NA	28
	12/15/95	335	335	85	NA	NM	0.4	5.9	NA	NA	30
	09/13/95	340	340	100	NA	NM	< 0.25	NA	NA	5.5	34
	11/08/94	387	387	**1,730**	NA	NM	NA	5.6	NA	NA	34.5
	09/10/92	345	342	81	NA	NM	NA	NA	NA	4.2	32.6
	12/07/90	NA	480	81	NA	NM	0.8	NA	NA	17.6	39.7
LF01GW04	02/28/07	200	200	57	0.01	4.30	< 0.1	8.1	< 0.05	NA	48
DUP0228071A	02/28/07	200	200	57	< 0.01	--	< 0.1	8.1	< 0.05	NA	48
	03/20/06	160	160	71	< 0.01	4.21	< 0.1	9.2	< 0.05	NA	46
	03/17/05	95	95	94	< 0.01	0.80	< 0.1	4.1	< 0.05	NA	45
	03/17/04	210	210	61	< 0.01	0.8	< 0.1	13	< 0.05	NA	52
DUP0317043A	03/17/04	210	210	60	< 0.01	--	< 0.1	13	< 0.05	NA	52
LF01GW04CL	03/17/04	200	200	57	< 0.005	--	< 0.1	13 J	< 0.05 UJ	13 J	49
	03/13/03	210	210	57	< 0.01	0.4	< 0.1	13	< 0.05	NA	47
DUP0313032A	03/13/03	210	210	55	< 0.01	--	< 0.1	13	< 0.05	NA	47
	12/03/02	210	210	57	< 0.01	4.7	< 0.1	12	< 0.05	NA	49

Table A-6-1
Results of General Chemistry and Cyanide Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	E335.2/ SW9010/ SW9012	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Cleanup Level [2]		--	--	**250**	**0.15**	--	--	--	--	--	--
LF01GW04	08/27/02	210 J-	210 J-	58	< 0.01	1	0.2	13	< 0.05	NA	49
	05/30/02	190	190	61	< 0.01	1.4	0.096 J	12	0.03 J	NA	47
DUP0530021B	05/30/02	190	190	63	< 0.01	--	0.14	11	0.03 J	NA	47
LF01GW04CL	05/30/02	190	190	58	< 0.01	--	< 1	12	< 1	NA	49
	03/12/02	72	< 1	83	< 0.01	1.7	< 0.1 U	10	0.04 J	NA	42
	11/27/01	220	220	57	< 0.01	3.2	0.17	13	< 0.05 UJ	NA	49
DUP1127012A	11/27/01	210	210	58	< 0.01	--	0.17	14 J	< 0.05 UJ	NA	49
LF01GW04CL	11/27/01	220	220	66	NA	--	< 1	13 [3]	< 1	NA	53
	08/29/01	210	210	57	< 0.01	3.2	0.15	13	< 0.05	NA	50
	05/17/01	220	220	55	< 0.01 UJ	7.2	0.14	13	< 0.05	NA	49
	05/11/99	229	229	36	< 0.05	5.3	< 0.1	NA	NA	12.4	53
	02/10/99	212	212	35	< 0.05	5.4	< 0.1	NA	NA	13	53
	11/10/98	222	222	27	< 0.1	6	< 0.1	NA	NA	13.1	54
	08/12/98	215	215	205	< 0.05	6.1	0.126	NA	NA	10	40
	04/10/98	230	230	27	< 0.05	5.2	0.11	NA	NA	11	61
	01/06/98	216	216	20	< 0.01	5.4	< 0.1	9.58	NA	8.06	46.5
	11/06/97	220	220	28	< 0.05	5.8	< 0.1	NA	NA	10	51
	08/07/97	230	230	20	NA	5.1	0.15	NA	NA	NA	52
	05/08/97	220	220	21	NA	5.1	0.13	NA	NA	6.2	51
	02/05/97	210	210	33	NA	5.1	0.12	NA	NA	12	49
	10/30/96	220	220	21	NA	NM	0.11	NA	NA	10	50
	08/05/96	220	220	21	NA	NM	0.11	NA	NA	14	50
	05/21/96	230	230	28	NA	NM	0.15	NA	NA	12	45
	03/11/96	214	214	35	NA	NM	0.355	13	NA	NA	46
	12/18/95	223	223	35	NA	NM	< 0.1	13	NA	NA	54
	09/14/95	230	230	39	NA	NM	< 250	NA	NA	12	62
	11/08/94	255	255	**575**	NA	NM	NA	10.9	NA	NA	51.8
	09/10/92	215	214	55	NA	NM	NA	NA	NA	10	53.5
	12/07/90	NA	300	51	NA	NM	0.6	NA	NA	34.6	55.6

Table A-6-1
Results of General Chemistry and Cyanide Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	E335.2/ SW9010/ SW9012	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Cleanup Level [2]		--	--	**250**	**0.15**	--	--	--	--	--	--
LF01GW05	02/28/07	240	240	63	< 0.01	0.54	< 0.1	1.8	< 0.05	NA	43
	03/20/06	240	240	65	< 0.01	0.49	< 0.1	1.8	< 0.05	NA	42
	03/15/05	230	230	72	< 0.01	0.60	< 0.1	1.4	< 0.05	NA	40
	03/16/04	220	220	58	< 0.01	0.9	< 0.1	0.84	< 0.05	NA	30
	03/12/03	280	280	71	< 0.01	0.2	< 0.1	0.63	< 0.05	NA	38
	12/03/02	250	250	61	< 0.01	0.9	< 0.1	1	< 0.05	NA	46
	08/27/02	250 J-	250 J-	66	< 0.01	0.8	0.2	0.82	< 0.05	NA	44
	05/29/02	250	250	67	< 0.01	1.6	0.1	0.42	< 0.05	NA	43
	03/11/02	140	110	19	< 0.01	3.8	0.067 J	2.7	< 0.05	NA	13
	11/27/01	250	250	54	< 0.01	4.1	0.095 J	0.79 J	0.04 J,J	NA	45
	08/28/01	260	260	61	< 0.01	0.4	0.085 J	0.25	< 0.05	NA	42
	05/16/01	260	260	58	< 0.01	3.6	0.084 J	0.03 J	< 0.05	NA	44
	05/13/99	262	262	78	< 0.05	0.9	< 0.1	NA	NA	< 0.081 (U4, U12)	50.7
	02/11/99	248	248	87	< 0.05	2.0	< 0.1	NA	NA	< 0.290 (U4)	54
	11/12/98	254	254	94	< 0.1	1.9	< 2	NA	NA	0.39	57
	08/11/98	253	253	66	< 0.05	26.0	< 0.1	NA	NA	0.45	33
	04/09/98	230	230	85	< 0.05	46.0	< 0.1	NA	NA	0.038	45
	01/05/98	247	247	66	< 0.01	2.5	< 0.1	0.115	NA	0.076	37.7
	11/06/97	250	250	86	< 0.05	1.2	< 0.1	NA	NA	3.8	46
	08/07/97	250	250	69	NA	0.8	0.15	NA	NA	NA	41
	05/08/97	250	250	72	NA	1.7	0.11	NA	NA	< 0.05	31
	02/06/97	240	240	65	NA	5.1	0.11	NA	NA	< 0.05	37
	10/31/96	240	240	61	NA	NM	0.11	NA	NA	< 0.05	29
	08/06/96	240	240	59	NA	NM	0.1	NA	NA	0.14	32
	05/22/96	240	240	58	NA	NM	0.14	NA	NA	0.13	35
	03/12/96	227	227	57	NA	NM	0.313	0.24	NA	NA	29
	12/19/95	214	214	54	NA	NM	0.3	0.9	NA	NA	32
	09/15/95	220	220	55	NA	NM	< 0.25	NA	NA	0.43	26
	11/08/94	262	262	**527**	NA	NM	NA	1.41	NA	NA	37.6
	09/10/92	243	241	46	NA	NM	NA	NA	NA	1.1	49.5
	11/29/90	NA	260	49	NA	NM	0.7	NA	NA	1.3	66.6

Table A-6-1
Results of General Chemistry and Cyanide Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	E335.2/ SW9010/ SW9012	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Cleanup Level [2]		--	--	**250**	**0.15**	--	--	--	--	--	--
LF01GW06	02/28/07	130	130	2.8	< 0.01	4.44	< 0.1	0.44	< 0.05	NA	2.7
	03/20/06	120	120	1.5	< 0.01	4.2	< 0.1	0.16	< 0.05	NA	1.2
	03/15/05	110	110	2.2	< 0.01	0.20	< 0.1	0.34	< 0.05	NA	1.3
	03/17/04	120	120	13	< 0.01	4.8	< 0.1	4.3	< 0.05	NA	18
	03/13/03	240	240	11	< 0.01	1.3	< 0.1	2.4	< 0.05	NA	7.3
	12/03/02	200	200	31	< 0.01	4.1	< 0.1	11	< 0.05	NA	45
	08/27/02	190	190	31	< 0.01	1.2	0.19	11	< 0.05	NA	47
DUP0827022A	08/27/02	200	200	31	< 0.01	--	0.19	11	< 0.05	NA	46
	05/30/02	200	200	32	< 0.01	1.6	0.14	11	< 0.05	NA	48
DUP0530021C	05/30/02	200	200	32	< 0.01	--	0.15	11	< 0.05	NA	49
	03/12/02	180	180	15	< 0.01	1.1	< 0.1 U	5.6	< 0.05	NA	22
	11/27/01	210	210	33	< 0.01	3.76	0.11	12 J	< 0.05 UJ	NA	47
	08/28/01	210	210	34	< 0.01	3.0	0.11	12	< 0.05	NA	48
	05/17/01	220	220	32	< 0.01 UJ	5.5	0.086 J	12	< 0.05	NA	48
	05/12/99	208	208	32	< 0.05	6.0	< 0.1	NA	NA	10.7 (J12)	48
	02/10/99	139	139	15	< 0.05	5.6	< 0.1	NA	NA	8.24	24
	11/11/98	220	220	32	< 0.05	6.1	< 0.1	NA	NA	11.2	47
	08/13/98	200	200	27	< 0.05	5.3	< 0.1	NA	NA	9.8	36
	04/13/98	220	220	35	< 0.05	5.6	0.1	NA	NA	11	52
	01/06/98	202	202	19	< 0.01 (U9)	6.0	< 0.1	6.58	NA	5.93	30.2
	11/05/97	200	200	25	< 0.05	4.2	< 0.1	NA	NA	8.1	42
	08/06/97	210	210	26	NA	5.7	0.16	NA	NA	NA	42
	05/07/97	210	210	28	NA	4.8	0.1	NA	NA	8.6	39
	02/05/97	200	200	32	NA	5.4	0.1	NA	NA	12	45
	10/30/96	200	200	26	NA	NM	0.13	NA	NA	11	44
	08/05/96	190	190	26	NA	NM	0.13	NA	NA	13	43
	05/23/96	200	200	22	NA	NM	0.13	NA	NA	11	35
	03/11/96	200	200	15	NA	NM	< 0.370 (U4)	1.2	NA	NA	< 7.6 (U4)
	12/18/95	152	152	21	NA	NM	0.5	5.4	NA	NA	26
	09/14/95	200	200	23	NA	NM	< 0.25	NA	NA	9.2	31
	11/08/94	260	260	**335**	NA	NM	NA	10.9	NA	NA	45.3
	08/28/92	195	193	25	NA	NM	NA	NA	NA	9.8	47.1

Table A-6-1
Results of General Chemistry and Cyanide Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	E335.2/ SW9010/ SW9012	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Cleanup Level [2]		--	--	**250**	**0.15**	--	--	--	--	--	--
LF01GW07	02/28/07	250	250	53	< 0.01	4.44	< 0.1	8.3	< 0.05	NA	46
	03/20/06	260	260	52	< 0.01	4.22	< 0.1	7.3	< 0.05	NA	45
	03/15/05	120	120	25	< 0.01	0.90	< 0.1	4.5	< 0.05	NA	21
	03/17/04	150	150	48	< 0.01	3.5	< 0.1	7.9	< 0.05	NA	36
	03/13/03	210	210	48	< 0.01	3.8	< 0.1	6.9	< 0.05	NA	35
	12/03/02	230	230	55	< 0.01	4.1	< 0.1	8	< 0.05	NA	48
	08/27/02	220 J-	220 J-	55	< 0.01	NM	0.21	8.3	< 0.05	NA	50
	05/29/02	210	210	54	< 0.01	1.4	0.13	7.5	< 0.05	NA	45
	03/12/02	200	200	53	< 0.01	1.9	< 0.1 U	7.7	< 0.05	NA	40
	11/27/01	240	240	52	< 0.01	3.4	0.12	8.7 J	< 0.05 UJ	NA	49
	08/29/01	230	230	54	< 0.01	3.0	0.11	8.8	< 0.05	NA	49
	05/15/01	240	240	50	< 0.01	8.5	0.15	8.6 J	< 0.05 UJ	NA	53
DUP0515013A	05/15/01	240	240	51	< 0.01	--	0.09 J	8.6 J	< 0.05 UJ	NA	53
LF01GW07CL	05/15/01	230	230	50	ND	--	< 1	39	< 1	NA	52
	05/10/99	259	259	58.4	< 0.05	7.8	< 0.1	NA	NA	7.77	58
	02/08/99	224	224	63.3	< 0.05	7.5 (J35)	< 0.1	NA	NA	8.9	60
	11/09/98	240	240	68.2	< 0.1	8 (J35)	< 0.1	NA	NA	6.92	58
	08/11/98	234	234	46	< 0.05	9.7	< 0.1	NA	NA	7.16	39
	04/09/98	220	220	56	< 0.05	4.9	< 0.1	NA	NA	8.6	59
	01/05/98	234	234	45	< 0.01	7.8	< 0.1	7.21	NA	6.68	46.4
	11/06/97	240	240	53	< 0.05	5.3	< 0.1	NA	NA	9.7	54
	08/07/97	240	240	50	NA	4.4	0.16	NA	NA	NA	53
	05/08/97	240	240	53	NA	4.2	0.11	NA	NA	7	53
	02/06/97	180	180	39	NA	4.5	0.11	NA	NA	9.6	38
	10/31/96	250	250	48	NA	NM	< 0.1	NA	NA	10	54
	08/06/96	240	240	48	NA	NM	0.1	NA	NA	11	63
	05/22/96	240	240	47	NA	NM	0.12	NA	NA	11	56
	03/12/96	242	242	48	NA	NM	0.289	11	NA	NA	64
	12/19/95	238	238	52	NA	NM	0.3	21	NA	NA	68
	09/15/95	250	250	55	NA	NM	< 0.25	NA	NA	12	83
LF02GW01	02/28/07	220	220	75	< 0.01	0.68	< 0.1	0.91	< 0.05	NA	17
	03/16/06	230	230	76	< 0.01	0.51	< 0.1	0.9	< 0.05	NA	17
	03/15/05	230	230	74	< 0.01	0.40	< 0.1	0.92	< 0.05	NA	16
	03/16/04	200	200	77	< 0.01	0.8	< 0.1	0.98	< 0.05	NA	16
	03/13/03	190	190	67	< 0.01	0.7	< 0.1	0.97	< 0.05	NA	15
	12/03/02	200	200	67	< 0.01	1.5	< 0.1	0.95	< 0.05	NA	14

Table A-6-1
Results of General Chemistry and Cyanide Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	E335.2/ SW9010/ SW9012	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Cleanup Level [2]		--	--	**250**	**0.15**	--	--	--	--	--	--
LF02GW01	08/27/02	190 J-	190 J-	69	< 0.01	1.2	0.17	0.94	< 0.05	NA	15
	05/29/02	190	190	70	< 0.01	1.4	0.13	0.87	< 0.05	NA	15
	03/11/02	190	190	68	< 0.01	0.8	0.087 J	0.97	< 0.05	NA	15
	11/28/01	200	200	73	< 0.01	1.5	0.11	1 J	< 0.05 UJ	NA	15
	08/28/01	200	200	69	< 0.01	0.9	0.086 J	0.97	< 0.05	NA	15
	05/17/01	210	210	68	< 0.01 UJ	2.3	0.082 J	0.94	< 0.05	NA	15
	05/11/99	214	214	78	< 0.05	0.7	< 0.1	NA	NA	0.552	15.1
	02/09/99	196	196	87	< 0.05	0.8	< 0.1	NA	NA	0.986	17
	11/10/98	201	201	85	< 0.1	3.15 (J35)	< 0.1	NA	NA	1	15.9
	08/12/98	196	196	63	< 0.05	1.1	0.108	NA	NA	1.03	11
	04/10/98	190	190	81	< 0.05	0.7 (J34)	0.1	NA	NA	1	16
	01/06/98	193	193	60	< 0.01	1.6	< 0.1	0.908	NA	0.862	13.2
	11/03/97	190	190	71	< 0.05	0.7	< 0.1	NA	NA	0.81	14
	08/04/97	200	200	66	NA	1.5	0.2	NA	NA	NA	14
	05/05/97	200	200	67	NA	1.6	< 0.1	NA	NA	0.71	12
	02/03/97	200 (J29)	200 (J29)	57	NA	0.8	< 0.1	NA	NA	< 0.05 (R9)	15
	10/28/96	200	200	64	NA	NM	< 0.1	NA	NA	1.1	44
	07/31/96	190	190	64	NA	NM	< 0.1	NA	NA	1.3	15
	05/21/96	< 2	< 2	64	NA	NM	< 0.1	NA	NA	1.8	13
	03/04/96	191	191	69	NA	NM	0.27	1.34	NA	NA	15
	12/11/95	208	208	52	NA	NM	< 0.1	7	NA	NA	47
	09/08/95	200	200	65	NA	NM	< 250	NA	NA	1.2	19
	11/09/94	234	234	69.4	<0.005	NM	NA	1.6	NA	NA	16.3
	08/28/92	190	189	60	NA	NM	NA	NA	NA	1.2	15.1
	11/28/90	NA	220	54.2	NA	NM	0.5	NA	NA	1.3	18.9
LF02GW02	02/28/07	480	480	170	< 0.01	0.62	< 0.1	< 0.05	< 0.05	NA	76
	03/20/06	480	480	160	< 0.01	0.4	< 0.1	< 0.05	< 0.05	NA	72
	03/15/05	460	460	170	< 0.01	0.90	< 0.1	< 0.05	< 0.05	NA	72
	03/16/04	460	460	190	< 0.01	0.1	< 0.1	< 0.05	< 0.05	NA	79
	03/13/03	440	440	170	< 0.01	0.1	< 0.1	0.06	< 0.05	NA	71
DUP0313032B	03/13/03	450	450	170	< 0.01	--	< 0.1	0.08	< 0.05	NA	82
	12/03/02	480	480	180	< 0.01	0.6	< 0.1	< 0.05	< 0.05	NA	84
DUP1203023A	12/03/02	490	490	180	< 0.01	--	< 0.1	< 0.05	< 0.05	NA	83

Table A-6-1
Results of General Chemistry and Cyanide Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	E335.2/ SW9010/ SW9012	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Cleanup Level [2]		--	--	**250**	**0.15**	--	--	--	--	--	--
LF02GW02	08/27/02	620 J-	620 J-	180	< 0.01	1.3	0.2	< 0.05	< 0.05	NA	84
DUP0827023A	08/27/02	490 J-	490 J-	180	< 0.01	--	0.2	< 0.05	< 0.05	NA	84
	05/29/02	490	490	180	< 0.01	1	0.086 J	< 0.05	< 0.05	NA	86
	03/11/02	520	520	200	< 0.01	0.8	0.045 J	< 0.05	< 0.05	NA	97
DUP0311022B	03/11/02	530	530	200	< 0.01	--	0.051 J	< 0.05	< 0.05	NA	96
LF02GW02CL	03/11/02	510	510	200	< 0.01	--	< 1	< 1	< 1	NA	93
	11/28/01	520	520	210	< 0.01	0.6	0.045 J	< 0.05	< 0.05	NA	96
	08/28/01	520	520	190	< 0.01	1.5	0.071 J	0.14	< 0.05	NA	94
	05/17/01	510	510	190	< 0.01 UJ	1.7	< 0.1	< 0.05	< 0.05	NA	99
	05/12/99	537	537	248	< 0.05	0.4	< 0.1	NA	NA	0.095 (J12)	120
	02/10/99	525	525	**279**	< 0.05	0.3	< 0.1	NA	NA	< 0.02	130
	11/11/98	540	540	**311**	< 0.05	1.6	< 0.1	NA	NA	0.059	130
	08/13/98	530	530	220	< 0.05	1.2	< 0.1	NA	NA	< 0.05	90
	04/13/98	510	510	**290**	< 0.05	0.6	< 0.1	NA	NA	< 0.05	130
	01/07/98	556	556	248	< 0.01	1.6	< 0.1	< 0.05	NA	< 0.05	117
	11/03/97	520	520	**260**	< 0.05	0.4	< 0.1	NA	NA	< 0.02	110
	08/04/97	610	610	**270**	NA	1.1	0.17	NA	NA	NA	130
	05/05/97	500	500	230	NA	0.8	< 0.1	NA	NA	< 0.05	85
	02/03/97	540 (J29)	540 (J29)	250	NA	1.7	< 0.1	NA	NA	< 0.05	110
	10/28/96	460	460	210	NA	NM	< 0.1	NA	NA	0.18	82
	07/31/96	470	470	220	NA	NM	0.11	NA	NA	< 0. 5	81
	05/22/96	440	440	200	NA	NM	< 0.1	NA	NA	< 0.05	58
	03/04/96	412	412	209	NA	NM	0.46	< 0.05	NA	NA	64
	12/11/95	221	221	56	NA	NM	0.4	21	NA	NA	54
	09/06/95	370	370	160	NA	NM	< 250	NA	NA	< 0.04	46
	11/09/94	418	418	152	<0.005	NM	NA	1.6	NA	NA	52.7
	09/04/92	330	325	130	NA	NM	NA	NA	NA	0.025	54
	11/29/90	NA	440	114.5	NA	NM	0.9	NA	NA	0.3	54.7

Table A-6-1
Results of General Chemistry and Cyanide Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	E335.2/ SW9010/ SW9012	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Cleanup Level [2]		--	--	**250**	**0.15**	--	--	--	--	--	--
LF02GW04	03/01/07	370	370	100	< 0.01	0.22	< 0.1	3.2	< 0.05	NA	31
	03/20/06	150	150	46	< 0.01	1.11	< 0.1	8.2	< 0.05	NA	24
	03/15/05	150	150	68	< 0.01	0.80	< 0.1	8.8	< 0.05	NA	29
	03/16/04	260	260	92	< 0.01	0.3	< 0.1	9.5	< 0.05	NA	35
	03/13/03	350	350	98	< 0.01	0.2	< 0.1	2.9	< 0.05	NA	30
	12/03/02	340	340	99	< 0.01	0.3	< 0.1	5.3	< 0.05	NA	25
	08/27/02	360 J-	360 J-	100	< 0.01	1.1	0.19	4.9	0.04 J	NA	28
	05/29/02	360	360	100	< 0.01	1.1	0.13	2.4	< 0.05	NA	28
	03/11/02	190	190	61	< 0.01	0.8	0.11	1.4	< 0.05	NA	35
	11/28/01	350	350	110	< 0.01	0.3	0.073 J	5.4	0.07	NA	27
	08/28/01	340	340	100	< 0.01	1.8	0.091 J	5.9	< 0.05	NA	28
	05/15/01	350	350	100	< 0.01	2.5	0.16	4.5 J	0.08 J	NA	32
	05/12/99	365	365	126	< 0.05	0.4	< 0.1	NA	NA	4.99 (J12)	31
	02/11/99	363	363	140	< 0.05	1.5 (J35)	< 0.1	NA	NA	5.95	41.2
	11/11/98	373	373	148	< 0.05	0.3	< 0.1	NA	NA	5.54	34
	08/13/98	360	360	110	< 0.05	0.6	< 0.1	NA	NA	4.5	27
	04/13/98	400	400	170	< 0.05	2.2	< 0.1	NA	NA	4.8	47
	01/07/98	354	354	96	< 0.01	2.0	< 0.1	5.07	NA	4.76	25.8
	11/04/97	360	360	110	< 0.05	0.3	< 0.1	NA	NA	5.2	25
	08/05/97	390	390	130	NA	0.2	0.17	NA	NA	NA	45
	05/06/97	380	380	130	NA	0.8	< 0.1	NA	NA	3.8	28
	02/04/97	380	380	120	NA	0.7	< 0.1	NA	NA	4.3	30
	11/01/96	390	390	120	NA	NM	< 0.1	NA	NA	6.5	27
	08/01/96	390	390	110	NA	NM	< 0.1	NA	NA	4.7	31
	05/21/96	370	370	110	NA	NM	< 0.1	NA	NA	4.5	23
	03/06/96	373	373	100	NA	NM	0.5	5.5	NA	NA	26
	12/11/95	363	363	130	NA	NM	0.4	6.4	NA	NA	25
	09/11/95	360	360	100	NA	NM	< 250	NA	NA	5.6	30
100GW101	12/05/03	NA	NA	NA	NA	0.7	NA	NA	NA	NA	NA
	08/21/03	NA	NA	NA	NA	1.1	NA	NA	NA	NA	NA
	06/10/03	NA	NA	NA	NA	4.4	NA	NA	NA	NA	NA
	03/13/03	NA	NA	NA	NA	1.8	NA	NA	NA	NA	NA
	12/06/02	NA	NA	NA	NA	3.3	NA	NA	NA	NA	NA

Table A-6-1
Results of General Chemistry and Cyanide Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	E335.2/ SW9010/ SW9012	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Cleanup Level [2]		--	--	**250**	**0.15**	--	--	--	--	--	--
104GW101	12/05/03	NA	NA	NA	NA	1	NA	NA	NA	NA	NA
	08/21/03	NA	NA	NA	NA	1.7	NA	NA	NA	NA	NA
	06/10/03	NA	NA	NA	NA	3.2	NA	NA	NA	NA	NA
	03/14/03	NA	NA	NA	NA	0.3	NA	NA	NA	NA	NA
	12/06/02	NA	NA	NA	NA	3.8	NA	NA	NA	NA	NA

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001.
The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Cleanup levels taken from Table 7-6 in the Development of Presidio-wide Cleanup Levels for Soil, Sediment, Groundwater, and Surface Water (EKI, 2002; Table 7-6 Revised May 2006).
3 - The QC laboratory nitrate results have been converted to nitrate as nitrogen (nitrate-N) as other laboratory results are reported.
The QC laboratory reported nitrate as NO3 concentrations (nitrate-NO3) which are 4.43 times higher than nitrate-N concentrations.
mg/L - milligrams per liter
NA - Not analyzed
NM - Not measured
"--" dissolved oxygen measurements were not taken for duplicate and quality control samples.
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-6-2
Results of SVOC, PAH, OCP, PCB, Chlorinated Herbicide, and VOC Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104
Presidio of San Francisco, California

Well Name	Sample Date	SVOCs		All PAHs	All OCPs and PCBs	All Chlorinated Herbicides	VOCs							
		bis (2-Ethylhexyl)-phthalate	Phenol				Benzene	Bromo-dichloro-methane	Chloroform	Ethyl-benzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8310	SW8270	SW8310	SW8081A/ SW8082	SW8151	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Level[2]		**4**	**1**	**--**	**--**	**--**	**1**	**80**	**80**	**700**	**13**	**150**	**1,750**	**--**
EPSP01	05/13/99	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	1.3	1.3	ND
	02/10/99	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	12/04/98	< 10	< 10	ND	ND	ND	< 0.5	0.6	0.8	< 0.5	NA	< 0.5	< 0.5	ND
	04/17/98	< 10	< 10	ND (U15)	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	03/09/98	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	01/08/98	< 10	< 10	ND	ND	ND (U6)	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	11/09/94	**17.4**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/04/92	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LF01GW01	10/29/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	08/01/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	05/23/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	03/08/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	12/15/95	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	09/13/95	< 10	< 10	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	11/08/94	**7.57**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/26/92	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LF01GW02	10/29/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	08/01/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	05/23/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	0.7	< 0.5	ND
	03/08/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	12/15/95	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	ND
	09/13/95	< 10	**21**	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
LF01GW03	10/30/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	08/05/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	05/22/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	03/08/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	12/15/95	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	09/13/95	< 10	< 10	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	11/08/94	**5.19**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/10/92	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table A-6-2
Results of SVOC, PAH, OCP, PCB, Chlorinated Herbicide, and VOC Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104
Presidio of San Francisco, California

Well Name	Sample Date	SVOCs		All PAHs	All OCPs and PCBs	All Chlorinated Herbicides	VOCs							
		bis (2-Ethylhexyl)-phthalate	Phenol				Benzene	Bromo-dichloro-methane	Chloroform	Ethyl-benzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8310	SW8270	SW8310	SW8081A/ SW8082	SW8151	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Level[2]		**4**	**1**	**--**	**--**	**--**	**1**	**80**	**80**	**700**	**13**	**150**	**1,750**	**--**
LF01GW04	10/30/96	**46 (J30)**	< 10	ND	ND	ND	< 0.5	< 0.5	1	< 0.5	NA	< 0.5	< 0.5	ND
	08/05/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	1.1	< 0.5	NA	< 0.5	< 0.5	ND
	05/21/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	0.8	< 0.5	NA	< 0.5	< 0.5	ND
	03/11/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	12/18/95	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	09/14/95	< 10	< 10	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	11/08/94	**4.6**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/10/92	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LF01GW05	10/31/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	08/06/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	05/22/96	< 10	< 10	ND	ND	ND (U15)	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	03/12/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	12/19/95	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	09/15/95	< 10	< 10	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	11/08/94	**5.81**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/10/92	< 1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LF01GW06	03/12/02	NA	NA	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/17/01	NA	NA	ND	ND	ND	< 0.5	< 0.5	0.7	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/10/99	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 10 U	< 0.5	< 0.93	NA
	01/06/98	< 10	< 10	ND	ND	ND	NA	< 0.5	0.74	NA	NA	< 0.5	< 0.5	NA
	10/30/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	0.8	< 0.5	NA	< 0.5	< 0.5	ND
	08/05/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	0.8	< 0.5	NA	< 0.5	< 0.5	ND
	05/23/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	0.9	< 0.5	NA	< 0.5	< 0.5	ND
	03/11/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	12/18/95	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	09/14/95	**21 (J30)**	< 10	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	11/08/94	**5.27**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/28/92	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table A-6-2
Results of SVOC, PAH, OCP, PCB, Chlorinated Herbicide, and VOC Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104
Presidio of San Francisco, California

Well Name	Sample Date	SVOCs		All PAHs	All OCPs and PCBs	All Chlorinated Herbicides	VOCs							
		bis (2-Ethylhexyl)-phthalate	Phenol				Benzene	Bromo-dichloro-methane	Chloroform	Ethyl-benzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8310	SW8270	SW8310	SW8081A/ SW8082	SW8151	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Level[2]		**4**	**1**	**--**	**--**	**--**	**1**	**80**	**80**	**700**	**13**	**150**	**1,750**	**--**
LF01GW07	10/31/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	08/06/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	05/22/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	03/12/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	12/19/95	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	09/15/95	< 10	< 10	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
LF02GW01	10/28/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	07/31/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	3.1	< 0.5	ND
	05/21/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	03/04/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	12/11/95	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	09/08/95	< 9.6	< 9.6	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	11/09/94	**13.3**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/28/92	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LF02GW02	03/11/02	NA	NA	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0311022B	03/11/02	NA	NA	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
LF02GW02CL	03/11/02	NA	NA	ND	ND	NA	< 0.5	< 0.5	< 1 UJ	< 0.5	< 5 R	< 0.5	< 1	ND
	05/17/01	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/10/99	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 10 U	< 0.5	< 0.93	ND
	01/07/98	< 10	< 10	ND	ND	ND	NA	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	ND
	10/28/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	07/31/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	05/22/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	03/04/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	12/11/95	**14 (J30)**	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	09/06/95	< 10	< 10	ND	ND (U6)	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	11/09/94	2.36	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/04/92	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LF02GW04	11/01/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	08/01/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	05/21/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	03/06/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	12/11/95	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	09/11/95	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND

Table A-6-2
Results of SVOC, PAH, OCP, PCB, Chlorinated Herbicide, and VOC Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104
Presidio of San Francisco, California

Well Name	Sample Date	SVOCs		All PAHs	All OCPs and PCBs	All Chlorinated Herbicides	VOCs							
		bis (2-Ethylhexyl)-phthalate	Phenol				Benzene	Bromo-dichloro-methane	Chloroform	Ethyl-benzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8310	SW8270	SW8310	SW8081A/ SW8082	SW8151	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Level[2]		**4**	**1**	**--**	**--**	**--**	**1**	**80**	**80**	**700**	**13**	**150**	**1,750**	**--**
100GW101	12/05/03	NA	NA	NA	NA	NA	< 0.5	NA	NA	< 0.5	< 2	< 0.5	< 0.5	NA
DUP1205032A	12/05/03	NA	NA	NA	NA	NA	< 0.5	NA	NA	< 0.5	2.5	< 0.5	< 0.5	NA
100GW101CL	12/05/03	NA	NA	NA	NA	NA	< 0.5	NA	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	08/21/03	NA	NA	NA	NA	NA	< 0.5	NA	NA	< 0.5	3.5 C	< 0.5	< 0.5	NA
	06/10/03	NA	NA	NA	NA	NA	< 0.5	NA	NA	< 0.5	< 2	< 0.5	1.2	NA
	03/13/03	NA	NA	NA	NA	NA	< 0.5	NA	NA	< 0.5	7.4	< 0.5	< 0.5	NA
	12/06/02	NA	NA	NA	NA	NA	< 0.5	NA	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	10/10/02	NA	NA	NA	NA	NA	0.8	NA	NA	0.6	< 0.16	< 0.48	1.4	NA
104GW101	12/05/03	NA	NA	NA	NA	NA	< 0.5	NA	NA	< 0.5	2.6	< 0.5	< 0.5	NA
	08/21/03	NA	NA	NA	NA	NA	< 0.5	NA	NA	< 0.5	2.1 C	< 0.5	< 0.5	NA
	06/10/03	NA	NA	NA	NA	NA	< 0.5	NA	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	03/14/03	NA	NA	NA	NA	NA	< 0.5	NA	NA	< 0.5	5 C	< 0.5	< 0.5	NA
	12/06/02	NA	NA	NA	NA	NA	< 0.5	NA	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	10/10/02	NA	NA	NA	NA	NA	**2.6**	NA	NA	2.1	< 0.16	2.9	4.7	NA

Notes

1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.

2 - Cleanup levels taken from Table 7-6 in the Development of Presidio-wide Cleanup Levels for Soil, Sediment, Groundwater, and Surface Water (EKI, 2002; Table 7-6 Revised May 2006).
µg/L - micrograms per liter
NA - Not analyzed
ND - Not detected
PAHs - Polycyclic aromatic hydrocarbons
OCPs - Organochlorine pesticides
PCBs - Polychlorinated biphenyls
VOC - Volatile organic compound
MTBE - Methyl tertiary-butyl ether
SVOCs - Semivolatile organic compounds
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.

Table 11 in the main report identifies current and historical data qualifiers.

Table A-6-3
Results of Total and Dissolved Metals Analyses
Fill Site 1, Landfill 2, and El Polin Spring
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium	Hexavalent Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7196	SW7199	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW7470	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Level[2]		--	**6**	**10**	--	**4**	**5**	--	**50**	--	**1,000**	--	--	--	**15**	--	--	**2**	--	--	**50**	**50**	--	**2**	--	**5,000**	--
EPSP01	02/28/07	< 100	< 1	< 5	86	< 2	< 1	18,000	32	< 10	< 1	NA	NA	< 100	< 3	94,000 J	56	NA	< 20	< 500	< 5	< 1	32,000	< 1	< 10	< 20	460
	03/16/06	< 100 UJ	< 1	< 5	75	< 2	< 1	15,000	30	< 10	< 1	NA	NA	< 100	< 3	87,000	24	NA	< 20	< 500	< 5	< 1	31,000 J	< 1	< 10	< 20	420 J
	11/30/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	490
DUP1130052A	11/30/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370
EPSP01CL	11/30/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	518
	08/30/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	450
DUP0830052C	08/30/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	460
EPSP01CL	08/30/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	510
	05/26/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370
DUP0526052B	05/26/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	360
EPSP01CL	05/26/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	558
	03/15/05	180	< 1	< 5	85	< 2	< 1	15,000	32	< 10	1.3	NA	NA	510	< 3	87,000	91	NA	24	< 500	< 5	< 1	32,000	< 1	< 10	< 20	230
	12/15/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	690
DUP1215042B	12/15/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	560 J
EPSP01CL	12/15/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	537
	08/11/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	450
DUP0811041B	08/11/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	480
EPSP01CL	08/11/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	584
	05/28/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	480
DUP0528041B	05/28/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	480
EPSP01CL	05/28/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	480
	12/05/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	520
DUP1205031B	12/05/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	500
EPSP01CL	12/05/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	490
	08/14/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	480
	06/06/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	490
	03/13/03	< 100	< 1	< 1	79	< 1	< 1	15,000	29	< 1	< 1	NA	NA	< 100	< 3	81,000	23	NA	5.3	< 500	< 5	< 1 UJ	34,000 J-	< 1	< 10	< 10	440
	12/03/02	< 100	1.8	< 1	84	< 1	< 1	15,000	27 J	< 1	< 1	NA	NA	< 100	< 3	77,000	23	NA	3	< 500	< 5	< 1 UJ	30,000	< 1	< 10	< 10	570
	08/27/02	< 100	< 1	< 1	430	< 1	< 1	15,000	32 J	< 1	< 1	NA	NA	< 100	< 3	80,000	22	NA	3.3	< 500	< 5	< 1 UJ	32,000	< 1	< 10	79	400
	06/05/02	< 100	< 1	< 1	510	< 1	< 1	15,000	31	< 1	< 1	NA	NA	< 100	< 3	88,000	20	NA	4.7	510	< 5	< 1	35,000	< 1	< 10	78	420
	03/11/02	< 100	1.7	< 1	580	< 1	< 1	15,000	26	< 1	< 1	NA	NA	< 100	< 3	90,000	28	NA	10	520	< 5	< 1 UJ	36,000	< 1	< 10	78	450
	11/28/01	< 100	1.1	< 1	460	< 1	< 1	16,000	40 J	< 1	< 1	NA	NA	< 100	< 3	88,000	25	NA	4.2	810	< 5	< 1	35,000	< 1	< 10	77	460
	08/29/01	< 100	< 1	< 1	350 J+	< 1	< 1	15,000	36	< 1	7.4	NA	NA	120	< 3	91,000	28	NA	4.5	< 500	< 5	< 1 UJ	36,000	< 1	< 10	72	470
	05/18/01	< 100	1.7	< 1	280	< 1	< 1	< 500	36 J	< 1	1	NA	NA	170	< 3	83,000	25	NA	4.1	< 500	< 5	< 1	33,000	< 1	< 10	65	480
	05/13/99	< 100	< 5	< 5	75.1	< 4	< 2	14,300	30	< 10	< 10	NA	NA	< 100	< 3	74,500	35.1	NA	< 20	< 5,000	< 5	< 2	29,300	< 2	< 10	< 20	514
	02/10/99	< 100	< 5	< 5	73.5	< 4	< 2	14,800	26.3	< 10	13.1	NA	NA	129	< 3	79,500	36.4	NA	< 20	< 5,000	< 5	< 2	31,700	< 2	< 10	< 20	404
	12/04/98	< 100	< 5	< 5	74	< 4	< 2	13,900	27.9	< 10	< 12.2 (U1)	NA	NA	< 100	< 3	76,700	67.4	< 0.2	< 20	< 5,000	< 5	< 2	28,700	< 2	< 10	< 20	524
	04/17/98	< 100	< 5	< 5	66.6	< 4	< 2	13,800	28.1	< 10	< 10	NA	NA	< 100	< 3	73,500	38.7	< 0.2	< 20	< 5,000	< 5	< 2	28,200	< 2	< 10	< 20	389
	03/09/98	< 100	< 5	< 5	62.8	< 4	< 2	12,900	25	< 10	< 10	NA	NA	< 100	< 3	70,700	20	< 0.2	< 20	< 5,000	< 5	< 2	27,400	< 2	< 10	< 20	446
	01/08/98	< 100	< 5	< 5	68.7	< 4	< 2	13,900	25.5	< 10	< 10	14	22.4	< 100	< 3	77,800	47.9	< 0.2	< 20	< 5,000	< 5	< 2	31,700	< 2	< 10	< 20	522
	11/09/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	456
	09/04/92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	484
LF01GW01	02/28/07	< 100	< 1	< 5	110	< 2	< 1	48,000	< 10	< 10	< 1	NA	NA	< 100	< 3	55,000 J	< 10	NA	< 20	3,000	< 5	< 1	25,000	< 1	< 10	< 20	420
	03/08/06	< 100	< 1	< 5	100	< 2	< 1	43,000	< 10	< 10	1.8	NA	NA	< 100	< 3	57,000	< 10	NA	< 20	2,800	< 5	< 1	27,000	< 1	< 10	< 20	520
DUP0308063C	03/08/06	< 100	< 1	< 5	99	< 2	< 1	42,000	< 10	< 10	1.5	NA	NA	< 100	< 3	56,000	< 10	NA	< 20	2,700	< 5	< 1	27,000	< 1	< 10	< 20	480
LF01GW01CL	03/08/06	< 100 U	< 2 U	< 2 U	130	< 1 U	< 1 U	55,000	< 10 U	< 1 U	< 2 U	NA	NA	< 100 U	< 1 U	74,000	< 10 U	NA	8	< 5000 U	< 2 U	< 1 U	35,000	< 1 U	< 10 U	< 20 U	490
	03/17/05	< 100	< 1	< 5	95	< 2	< 1	43,000 J	< 10	< 10	1.1	NA	NA	150	< 3	47,000	< 10	NA	< 20	3600	< 5	< 1	28,000	< 1	< 10	< 20	490 J-
DUP0317051A	03/17/05	< 100	< 1	< 5	93	< 2	< 1	42,000 J	< 10	< 10	1.1	NA	NA	140	< 3	48,000	< 10	NA	< 20	3,500	< 5	< 1	28,000	< 1	< 10	< 20	460 J-
LF01GW01CL	03/17/05	< 100 U	< 2 U	< 2 U	96.8	< 1 U	< 1 U	44,900	< 10 U	< 1 U	< 2 U	NA	NA	< 100 U	< 1 U	53,700	< 10 U	NA	5.89	< 5000 UN	< 2 U	< 1 U	32,100 J	< 1 U	< 10 U	< 20 U	408
	03/16/04	< 100	< 1	< 5	110 J-	< 2	< 1	51,000	< 10	< 10	13	NA	NA	110	< 3	52,000	< 10	NA	< 20	4,800	< 5	< 1	33,000	< 1	< 10	< 20	390
	03/13/03	< 100	< 1	< 1	85	< 1	< 1	35,000	1.9	< 1	1	NA	NA	< 100	< 3	38,000	< 10	NA	5.7	3,500	< 5	< 1 UJ	32,000 J-	< 1	< 10	< 10	250

Table A-6-3
Results of Total and Dissolved Metals Analyses
Fill Site 1, Landfill 2, and El Polin Spring
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium	Hexavalent Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7196	SW7199	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW7470	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Level[2]		--	**6**	**10**	--	**4**	**5**	--	**50**	--	**1,000**	--	--	--	**15**	--	--	**2**	--	--	**50**	**50**	--	**2**	--	**5,000**	--
LF01GW01	12/09/02	< 100	< 1	< 1	120	< 1	< 1	36,000	1.4	< 1	1.2	NA	NA	140	< 3	34,000	92 J	NA	12	8,900	< 5	< 1 UJ	29,000	< 1	< 10	13 J+	350
DUP1209022D	12/09/02	< 100	< 1	< 1	120	< 1	< 1	37,000	1.7	< 1	< 1	NA	NA	120	< 3	35,000	67 J	NA	11	8,600	< 5	< 1 UJ	30,000	< 1	< 10	< 10	360
LF01GW01CL	12/09/02	< 100	< 1	< 2 U	130	< 1	< 1	42,000 J+	< 5	< 1	6.4	NA	NA	< 150	< 3	37,000	58	NA	11	9,800	< 5	< 1	34,000	< 1	< 10	< 10	320
	08/27/02	< 100	< 1	< 1	390	< 1	< 1	39,000	2.5 J	< 1	< 1	NA	NA	< 100	< 3	35,000	22	NA	9.9	8,100	< 5	< 1 UJ	31,000	< 1	< 10	100	320
	05/29/02	< 100	< 1	< 1	510	< 1	< 1	39,000	< 1	< 1	< 1	NA	NA	< 100	< 3	39,000	45	NA	7.8	3,900	< 5	< 1 UJ	36,000	< 1	< 10	210	560
	03/11/02	< 100	< 1	< 1	280	< 1	< 1	45,000	< 1	< 1	1	NA	NA	110	< 3	54,000	< 10	NA	7.1	3,600	< 5	< 1 UJ	35,000	< 1	< 10	49	390
DUP0311022A	03/11/02	< 100	< 1	< 1	250	< 1	< 1	45,000	< 1	< 1	< 1	NA	NA	110	< 3	54,000	< 10	NA	6.7	3,300	< 5	< 1 UJ	35,000	< 1	< 10	29	400
LF01GW01CL	03/11/02	< 200	0.34 J	< 2	240	< 2	0.13 J	42,000	< 2	0.62 J	4.2 B	NA	NA	18 J	< 5	48,000	9.7	NA	6.9	3,600	7.4	< 1	33,000	< 1	< 5	34 B	450 J-
	11/27/01	< 100	1.5	< 1	520	< 1	< 1	35,000	1.9	< 1	1.3	NA	NA	< 100	< 3	32,000	140	NA	13	8,500	< 5	< 1	32,000	< 1	< 10	170	340
	08/28/01	< 100	1.3	< 1	620	< 1	< 1	37,000	< 1	< 1	2.6	NA	NA	180	< 3	33,000	150	NA	14	7,900	< 5	< 1	35,000	< 1	< 10	170	320
	05/16/01	< 100	< 1	< 1	210	< 1	< 1	< 10,000 R	1.1 J	< 1	1.1	NA	NA	350	< 3	54,000	< 10	NA	7	4,000 J	< 5	< 1	36,000	< 1	< 10	33	420
	05/10/99	< 100	< 5	< 5	137	< 4	< 2	46,800	< 10	< 10	< 10	NA	NA	< 100	< 3	40,800	< 10	NA	< 20	7,320	< 5	< 2	30,100	< 2	< 10	< 20	418
	02/08/99	< 100	< 5	< 5	151	< 4	< 2	46,400	< 10	< 10	< 10	NA	NA	< 100	< 3	39,800	16.6	NA	< 20	7,520	< 5	< 2	27,100	< 2	< 10	< 20	421
	11/09/98	< 100	< 5	< 5	169	< 4	< 2	48,300	< 10	< 10	20.3	NA	NA	< 100	< 3	38,900	14.5	< 0.2	< 20	9,850	< 5	< 2	42,600	< 2	< 10	87.7	412
	08/11/98	< 100	< 10	< 5	140	< 2	< 2	44,400	< 5	< 5	< 10	NA	NA	< 50	< 5	40,100	8.7	< 0.5	12.1	7,650	< 10	< 10	32,200	< 10	< 10	11.9	417
	04/09/98	< 100	< 5	< 5	120	< 4	< 2	45,000	< 10	< 10	11	NA	NA	< 100	< 3	50,000	17	< 0.2	30	5,800	< 5	< 2	32,000	< 2	< 10	40	410
	01/05/98	< 100	< 5	< 5	132	< 4	< 2	48,200	< 10	< 10	< 10	< 10	1.3	< 100	< 3	43,700	< 10	< 0.2	< 20	7,800	< 5	< 2	33,600	< 2	< 10	< 20	466
	11/05/97	< 100	< 5	< 5	150	< 4	< 2	40,000	< 10	< 10	< 10	NA	NA	< 100	< 3	38,000	< 10	< 0.2	< 20	9,200	< 5	< 2	32,000	< 2	< 10	< 20	490
	08/06/97	< 100	< 5	< 5	150	< 4	< 2	46,000	< 10	< 10	< 10	NA	NA	< 100	< 3	40,000	< 10	< 0.2	< 20	8,800	< 5	< 2	31,000	< 2	< 10	< 20	400
	05/07/97	< 100	< 5	< 5	130	< 4	< 2	42,000	< 10	< 10	< 10	NA	NA	< 100	< 3	40,000	< 10	< 0.2	< 20	6,100	< 5	< 2	28,000	< 2	< 10	< 20	450
	02/06/97	< 100	< 5	< 5	140	< 4	< 2	53,000	< 10	< 10	< 10	NA	NA	< 100	3.6	48,000	< 10	< 0.2	< 20	8,000	< 5	< 2	31,000	< 2	< 10	20	400 (J29)
	10/29/96	< 100 U	< 5 U	5.8	150	< 4 U	< 2 U	48,000	< 10 U	< 10 U	< 10 U	NA	NA	< 100 U	< 3 U	40,000	33	< 0.2 U	< 20 U	9,300	< 5 U	< 2 U	32,000	< 2 U	< 10 U	< 20 U	NS
	08/01/96	< 100 U	< 5 U	< 5 U	160	< 2 U	< 0.5 U	50,000	< 1 U	< 10 U	8	NA	NA	< 100 U	< 1 U	44,000	33	< 0.2 U	12	9,300	< 5 U	< 0.5 U	36,000	< 2 U	< 10 U	< 20 U	NS
	05/23/96	< 100 U	< 5 U	< 5 U	150	< 2 U	< 0.5 U	55,000	< 1 U	< 10 U	5	NA	NA	< 100 U	< 1 U	51,000	13	< 0.2 U	8	7,200	< 5 U	< 0.5 U	35,000	< 2 U	< 10 U	< 20 U	NS
	03/08/96	< 100 U	< 5 U	< 5 U	160	< 2 U	< 0.5 U	57,600	< 1 U	< 10 U	< 1 U	NA	NA	< 100 U	< 1 U	51,500	13	< 0.2 U	17	8,570	< 5 U	< 0.5 U	30,000	< 2 U	< 10 U	< 20 U	NS
	12/15/95	< 100	< 5	< 5	150	< 2	< 0.5	47,100	< 1	< 10	< 1	NA	NA	< 100	< 1	40,700	17	< 0.2	10	9,610	< 5	< 0.5	33,000	< 2	< 10	< 20	NS
	09/13/95	< 200 U	< 60 U	< 5 U	150	< 2 U	< 2 U	43,000	< 10 U	< 20 U	< 10 U	NA	NA	< 100 U	< 3 U	39,000	29	< 0.2 U	< 20 U	8,600	10	< 5 U	36,000	< 5 U	< 10 U	45	NS
	11/08/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	494
	08/26/92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	485
LF01GW02	02/28/07	< 100	< 1	< 5	49	< 2	< 1	28,000	22	< 10	< 1	NA	NA	< 100	< 3	57,000 J	< 10	NA	< 20	2,800	< 5	< 1	40,000	< 1	< 10	< 20	470
	03/16/06	< 100 UJ	< 1	< 5	62	< 2	< 1	36,000	17	< 10	< 1	NA	NA	< 100	< 3	70,000	< 10	NA	< 20	4,000	< 5	< 1	47,000 J	< 1	< 10	< 20	580 J
	03/15/05	< 100	< 1	< 5	63	< 2	< 1	33,000	16	< 10	< 1	NA	NA	< 100	< 3	68,000	< 10	NA	< 20	5,900	< 5	< 1	59,000	< 1	< 10	< 20	530
	03/16/04	< 100	< 1	< 5	68 J-	< 2	< 1	40,000	28	< 10	< 1	NA	NA	< 100	< 3	91,000	< 10	NA	< 20	3,200	< 5	< 1	67,000	< 1	< 10	< 20	610
	03/13/03	< 100	< 1	< 1	59	< 1	< 1	31,000	28	< 1	< 1	NA	NA	< 100	< 3	71,000	< 10	NA	7.9	4,900	< 5	< 1 UJ	55,000 J-	< 1	< 10	10	420
	12/03/02	< 100	< 1	< 1	56	< 1	< 1	30,000	12 J	< 1	< 1	NA	NA	< 100	< 3	54,000	< 10	NA	11	4,500	< 5	1.4 J-	44,000	< 1	< 10	< 10	400
	08/27/02	< 100	< 1	< 1	380	< 1	< 1	29,000	16 J	< 1	< 1	NA	NA	< 100	< 3	55,000	< 10	NA	9.2	4,700	< 5	< 1 UJ	51,000	< 1	< 10	120	450
	05/29/02	< 100	< 1	< 1	450	< 1	< 1	33,000	18	< 1	< 1	NA	NA	< 100	< 3	73,000	< 10	NA	8.4	4,200	< 5	< 1 UJ	58,000	< 1	< 10	150	520
	03/11/02	< 100	< 1	< 1	400	< 1	< 1	34,000	30	< 1	< 1	NA	NA	< 100	< 3	86,000	< 10	NA	7.5	3,400	< 5	< 1 UJ	61,000	< 1	< 10	67	520
	11/27/01	< 100	2.3	< 1	580	< 1	< 1	34,000	33 J	< 1	1.4	NA	NA	< 100	< 3	78,000	< 10	NA	9.2	3,900	< 5	< 1	60,000	< 1	< 10	170	580
	08/28/01	< 100	1.3	< 1	700	< 1	< 1	34,000	32	< 1	3.8	NA	NA	160	< 3	79,000	< 10	NA	8	3,400	< 5	< 1	60,000	< 1	< 10	160	480
DUP0828012A	08/28/01	< 100	< 1	< 1	140	< 1	< 1	31,000	31	< 1	1.3	NA	NA	140	< 3	77,000	< 10	NA	8.1	4,200	< 5	< 1	55,000	< 1	< 10	42	530
	05/17/01	< 100	1.2 J	< 1 UJ	510 J	< 1 UJ	< 1 UJ	32,000 J	45 J	< 1 UJ	1.4 J	NA	NA	< 100 UJ	< 3 UJ	83,000	< 10 UJ	NA	8.4 J	3,500 J	< 5 UJ	< 1 UJ	66,000	< 1 UJ	< 10 UJ	310 J	650
DUP0517011A	05/17/01	< 100	< 1 UJ	< 1 UJ	410 J	< 1 UJ	< 1 UJ	34,000 J	46 J	< 1 UJ	< 1 UJ	NA	NA	< 100 UJ	< 3 UJ	86,000	< 10 UJ	NA	8.1 J	3,700 J	< 5 UJ	< 1 UJ	65,000	< 1 UJ	< 10 UJ	72 J	560
	05/11/99	< 100	< 5	< 5	52.8	< 4	< 2	27,000	36.4	< 10	< 10	NA	NA	< 100	< 3	56,800	< 10	NA	< 20	< 5,000	< 5	< 2	46,200	< 2	< 10	< 20	482
	02/09/99	< 100	< 5	< 5	55.5	< 4	< 2	29,700	24.7	< 10	< 10	NA	NA	< 100	< 3	52,000	< 10	NA	< 20	< 5,000	< 5	< 2	41,900	< 2	< 10	22.2	583
	11/10/98	169	< 5	< 5	53.1	< 4	< 2	27,200	28.8	< 10	47.3	NA	NA	215	3.2	56,200	28.3	< 0.2	< 20	< 5,000	< 5	< 2	46,600	< 2	< 10	51.3	394
	08/12/98	< 100	< 5	< 5	56.2	< 4	< 2	29,800	21.3	< 10	< 10	NA	NA	< 100	< 3	52,000	< 10	< 0.2	< 20	5,810	< 5	< 2	42,200	< 2	< 10	< 20	481
	04/10/98	< 100	< 5	< 5	72	< 4	< 2	31,000	34	< 10	< 10	NA	NA	< 100	< 3	64,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	48,000	< 2	< 10	< 20	470
	01/06/98	< 100	< 5	< 5	48	< 4	< 2	25,700	40.4	< 10	< 10	38	34.5	< 100	< 3	61,200	< 10	< 0.2	< 20	< 5,000	< 5	< 2	52,000	< 2	< 10	263	531
	11/04/97	< 100	< 5	< 5	55	< 4	< 2	29,000	22	< 10	< 10	NA	NA	< 100	< 3	63,000	< 10	< 0.2	< 20	5,700	< 5	< 2	47,000	< 2	< 10	< 20	530

Table A-6-3
Results of Total and Dissolved Metals Analyses
Fill Site 1, Landfill 2, and El Polin Spring
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium	Hexavalent Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7196	SW7199	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW7470	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Level[2]		--	**6**	**10**	--	**4**	**5**	--	**50**	--	**1,000**	--	--	--	**15**	--	--	**2**	--	--	**50**	**50**	--	**2**	--	**5,000**	--
LF01GW02	08/05/97	< 100	< 5	< 5	53	< 4	< 2	32,000	20	< 10	< 10	NA	NA	< 100	< 3	63,000	< 10	< 0.2	< 20	5,000	< 5	< 2	40,000	< 2	< 10	< 20	470
	05/06/97	< 100	< 5	< 5	50	< 4	< 2	24,000	25	< 10	< 10	NA	NA	< 100	< 3	63,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	45,000	< 2	< 10	20	540
	02/04/97	< 100	< 5	< 5	46	< 4	< 2	25,000	24	< 10	< 10	NA	NA	< 100	< 3	62,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	50,000	< 2	< 10	< 20	510 (J29)
	10/29/96	< 100 U	< 5 U	< 5 U	57	< 4 U	< 2 U	30,000	26	< 10 U	< 10 U	NA	NA	< 100 U	< 3 U	72,000	< 10 U	< 0.2 U	< 20 U	< 5,000 U	< 5 U	< 2 U	53,000	< 2 U	< 10 U	< 20 U	NS
	08/01/96	< 100 U	< 5 U	< 5 U	59	< 2 U	< 0.5 U	32,000	19	< 10 U	4	NA	NA	< 100 U	< 1 U	81,000	< 10 U	< 0.2 U	11	< 5,000 U	< 5 U	< 0.5 U	54,000	< 2 U	< 10 U	< 20 U	NS
	05/23/96	< 100 U	< 5 U	< 5 U	60	< 2 U	< 0.5 U	32,000	21	< 10 U	4	NA	NA	< 100 U	< 1 U	83,000	< 10 U	< 0.2 U	9	< 5,000 U	< 5 U	< 0.5 U	50,000	< 2 U	< 10 U	< 20 U	NS
	03/08/96	< 100 U	< 5 U	< 5 U	55	< 2 U	< 0.5 U	36,100	21	< 10 U	< 1 U	NA	NA	< 100 U	1	87,000	< 10 U	< 0.2 U	10	< 5,000 U	< 5 U	< 0.5 U	41,000	< 2 U	< 10 U	< 20 U	NS
	12/15/95	< 100	< 5	< 5	56	< 2	2.9	37,300	14	< 10	1	NA	NA	< 100	< 1	70,100	< 10	< 0.2	11	< 5,000	< 5	< 0.5	43,000	< 2	< 10	< 20	NS
	09/13/95	< 200 U	< 60 U	< 5 U	45	< 2 U	< 2 U	28,000	13	< 20 U	< 10 U	NA	NA	< 100 U	< 3 U	63,000	< 10 U	< 0.2 U	< 20 U	2,500	7.8	< 5 U	43,000	< 5 U	< 10 U	26	NS
LF01GW03	02/28/07	< 100	< 1	< 5	130	< 2	< 1	23,000	42	< 10	< 1	NA	NA	< 100	< 3	79,000 J	< 10	NA	< 20	840	< 5	< 1	54,000	< 1	< 10	< 20	520
	03/20/06	< 100	< 1	< 5	130	< 2	< 1	20,000	43	< 10	< 1	NA	NA	< 100	< 3	84,000	< 10	NA	< 20	2,200	< 5	< 1	58,000	< 1	< 10	< 20	590
	03/15/05	< 100	< 1	< 5	150	< 2	< 1	21,000	31	< 10	< 1	NA	NA	< 100	< 3	89,000	< 10	NA	< 20	750	< 5	< 1	58,000	< 1	< 10	< 20	570
	03/17/04	< 100	< 1	< 5	130	< 2	< 1	26,000	33	< 10	< 1	NA	NA	< 100	< 3	100,000	< 10	NA	< 20	880	< 5	< 1 UJ	65,000	< 1	< 10	< 20	650
	03/13/03	< 100	< 1	2.2	140	< 1	< 1	24,000	33	< 1	< 1	NA	NA	< 100	< 3	95,000	< 10	NA	2.6	2,500	< 5	< 1 UJ	62,000 J-	< 1	< 10	< 10	550
	12/03/02	< 100	< 1	2.6	120	< 1	< 1	21,000	47 J	< 1	< 1	NA	NA	< 100	< 3	81,000	< 10	NA	2.2	670	< 5	< 1 UJ	56,000	< 1	< 10	< 10	530
	08/27/02	< 100	< 1	1.9	490	< 1	< 1	20,000	**53 J**	< 1	< 1	NA	NA	< 100	< 3	87,000	< 10	NA	2.7	920	< 5	< 1 UJ	58,000	< 1	< 10	120	500
	05/29/02	< 100	1	2.6	450	< 1	< 1	22,000	41	< 1	< 1	NA	NA	< 100	< 3	92,000	< 10	NA	1.5	1,400	< 5	< 1 UJ	64,000	< 1	< 10	110	650
	03/12/02	< 100	< 1	2.5	320	< 1	< 1	28,000	36	< 1	< 1	NA	NA	< 100	< 3	110,000	< 10	NA	2.9	2,200	< 5	< 1 UJ	70,000	< 1	< 10	23	590
	11/27/01	< 100	1.4	3.6	640	< 1	< 1	22,000	**55 J**	< 1	1.4	NA	NA	760	< 3	93,000	< 10	NA	2.8	1,300	< 5	< 1	65,000	< 1	< 10	120	550
	08/29/01	< 100	1.2	2.9	350 J+	< 1	< 1	21,000	50	< 1	1	NA	NA	< 100	< 3	94,000	< 10	NA	2.4	990	< 5	< 1 UJ	64,000	< 1	< 10	100	550
	05/17/01	< 100	1.4 J	3.3 J	570 J	< 1 UJ	< 1 UJ	27,000 J	47 J	< 1 UJ	1.4 J	NA	NA	< 100 UJ	< 3 UJ	120,000	< 10 UJ	NA	2.4 J	1,300 J	< 5 UJ	< 1 UJ	75,000	< 1 UJ	< 10 UJ	86 J	640
	05/10/99	< 100	< 5	< 5	113	< 4	< 2	23,900	45.5	< 10	< 10	NA	NA	< 100	< 3	83,500	< 10	NA	< 20	< 5,000	< 5	< 2	59,600	< 2	< 10	21.4	580
	02/08/99	< 100	< 5	< 5	123	< 4	< 2	24,000	42.6	< 10	< 10	NA	NA	< 100	< 3	85,300	< 10	NA	< 20	< 5,000	< 5	< 2	59,700	< 2	< 10	< 20	660
	11/09/98	< 100	< 5	< 5	131	< 4	< 2	26,100	43.3	< 10	12	NA	NA	122	6	88,400	< 10	< 0.2	< 20	< 5,000	< 5	4.9	66,500	< 12 (U1,U23)	< 10	26.5	3,790 (R23)
	08/11/98	< 100	< 5	< 5	120	< 4	< 2	23,000	42	< 10	< 10	NA	NA	< 100	3.2	87,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	60,000	< 2	< 10	< 20	560
	04/09/98	< 100	< 5	< 5	120	< 4	< 2	23,000	45	< 10	12	NA	NA	< 100	< 3	86,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	59,000	< 2	< 10	21	580
	01/05/98	< 100	< 5	< 5	97.7	< 4	< 2	21,800	47.1	< 10	< 10	45.0	38.9	< 100	< 3	81,400	< 10	< 0.2	< 20	< 5,000	< 5	< 2	54,600	< 2	< 10	161	601
	11/05/97	< 100	< 5	< 5	100	< 4	< 2	22,000	49	< 10	< 10	NA	NA	< 100	< 3	82,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	58,000	< 2	< 10	< 20	590
	08/06/97	< 100	< 5	< 5	110	< 4	< 2	24,000	46	< 10	< 10	NA	NA	< 100	< 3	82,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	53,000	< 2	< 10	< 20	520
	05/07/97	< 100	< 5	< 5	110	< 4	< 2	22,000	40	< 10	< 10	NA	NA	< 100	< 3	82,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	52,000	< 2	< 10	37	600
	02/05/97	< 100	< 5	< 5	100	< 4	< 2	21,000	34	< 10	18	NA	NA	< 100	11	75,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	56,000	< 2	< 10	58	450 (J29)
	10/30/96	< 100 U	< 5 U	9.3	110	< 4 U	< 2 U	24,000	43	< 10 U	< 10 U	NA	NA	< 100 U	< 3 U	86,000	< 10 U	< 0.2 U	< 20 U	< 5,000 U	< 5 U	< 2 U	54,000	< 2 U	< 10 U	< 20 U	NS
	08/05/96	< 100 U	< 5 U	< 5 U	98	< 2 U	< 0.5 U	23,000	44	< 10 U	8	NA	NA	< 100 U	< 1 U	76,000	< 10 U	< 0.2 U	5	< 5,000 U	< 5 U	< 0.5 U	53,000	< 2 U	< 10 U	24	NS
	05/22/96	< 100 U	< 5 U	< 5 U	100	< 2 U	< 0.5 U	22,000	39	< 10 U	1	NA	NA	< 100 U	< 1 U	84,000	< 10 U	< 0.2 U	< 5 U	< 5,000 U	< 5 U	< 0.5 U	56,000	< 2 U	< 10 U	< 20 U	NS
	03/08/96	< 100 U	< 5 U	< 5 U	110	< 2 U	< 0.5 U	23,900	39	< 10 U	< 1 U	NA	NA	< 100 U	< 1 U	92,400	< 10 U	< 0.2 U	< 5 U	< 5,000 U	< 5 U	< 0.5 U	57,000	< 2 U	< 10 U	< 20 U	NS
	12/15/95	< 100	< 5	< 5	110	< 2	< 0.5	21,400	42	< 10	< 1	NA	NA	< 100	< 1	84,300	18	< 0.2	7	< 5,000	< 5	< 0.5	58,000	< 2	< 10	< 20	NS
	09/13/95	< 200 U	< 60 U	< 5 U	100	< 2 U	< 2 U	19,000	40	< 20 U	< 10 U	NA	NA	< 100 U	< 3 U	78,000	< 10 U	< 0.2 U	< 20 U	< 500 U	12	< 5 U	56,000	< 5 U	< 10 U	56	NS
	11/08/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	548
	09/10/92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	567
LF01GW04	02/28/07	< 100	< 1	< 5	55	< 2	< 1	36,000	12	< 10	< 1	NA	NA	< 100	< 3	29,000 J	< 10	NA	< 20	8,400	< 5	< 1	50,000	< 1	< 10	< 20	430
DUP0228071A	02/28/07	< 100	< 1	< 5	55	< 2	< 1	36,000	12	< 10	< 1	NA	NA	390	< 3	30,000 J	< 10	NA	< 20	8,400	< 5	< 1	49,000	< 1	< 10	22	410
	03/20/06	< 100	< 1	< 5	42	< 2	< 1	33,000	15	< 10	< 1	NA	NA	< 100	< 3	38,000	< 10	NA	< 20	1,600	< 5	< 1	46,000	< 1	< 10	< 20	440
	03/15/05	< 100	< 1	< 5	56	< 2	< 1	29,000	< 10	< 10	< 1	NA	NA	< 100	< 3	19,000	< 10	NA	< 20	2,300	< 5	< 1	61,000	< 1	< 10	< 20	340
	03/15/04	< 100	< 1	< 5	37	< 2	< 1	43,000	20	< 10	1.1	NA	NA	< 100	< 3	52,000	< 10	NA	< 20	2,300	< 5	< 1 UJ	45,000	< 1	< 10	< 20	500
DUP0317043A	03/15/04	< 100	< 1	< 5	37	< 2	< 1	42,000	20	< 10	< 1	NA	NA	< 100	< 3	52,000	< 10	NA	< 20	1,400	< 5	< 1 UJ	44,000	< 1	< 10	< 20	540
LF01GW04CL	03/15/04	< 100	< 5	< 5	38	< 1	< 1	41,000	23	< 7	< 10	NA	NA	< 500	< 3	52,000	< 5	NA	< 10	1,200	< 5	< 1	42,000	< 2	< 10	24 J+	400
	03/13/03	< 100	< 1	< 1	39	< 1	< 1	45,000	19	< 1	< 1	NA	NA	110	< 3	56,000	< 10	NA	4	1,200	< 5	< 1 UJ	120,000 J-	< 1	< 10	< 10	380
DUP0313032A	03/13/03	< 100	< 1	< 1	38	< 1	< 1	38,000	19	< 1	< 1	NA	NA	< 100	< 3	47,000	< 10	NA	4	1,400	< 5	< 1 UJ	54,000 J-	< 1	< 10	< 10	380
	12/03/02	< 100	< 1	< 1	38	< 1	< 1	38,000	19 J	< 1	< 1	NA	NA	< 100	< 3	48,000	< 10	NA	3.7	660	< 5	< 1 UJ	39,000	< 1	< 10	< 10	440
	08/27/02	< 100	< 1	< 1	330	< 1	< 1	36,000	20 J	< 1	< 1	NA	NA	< 100	< 3	48,000	< 10	NA	3.8	820	< 5	< 1 UJ	39,000	< 1	< 10	100	450

Table A-6-3
Results of Total and Dissolved Metals Analyses
Fill Site 1, Landfill 2, and El Polin Spring
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium	Hexavalent Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7196	SW7199	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW7470	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Level[2]		--	**6**	**10**	--	**4**	**5**	--	**50**	--	**1,000**	--	--	--	**15**	--	--	**2**	--	--	**50**	**50**	--	**2**	--	**5,000**	--
LF01GW04	05/30/02	< 100	< 1	< 1	170	< 1	< 1	28,000	18	< 1	< 1	NA	NA	< 100	< 3	36,000	< 10	NA	4.5	18,000	< 5	< 1 UJ	57,000	< 1	< 10	40	450
DUP0530021B	05/30/02	< 100	< 1	< 1	180	< 1	< 1	30,000	17	< 1	< 1	NA	NA	< 100	< 3	39,000	< 10	NA	4.3	16,000	< 5	< 1 UJ	56,000	< 1	< 10	71	440
LF01GW04CL	05/30/02	< 100	0.61 J	< 0.5	98 B	< 0.078	< 1 BJ,U	31,000	21 J+	0.4 J	1.7 BJ	NA	NA	< 100	< 5	39,000	< 5	NA	5.1 B	14,000	5.2	< 0.03	52,000	< 0.34	3.9 J	24	430 J-
	03/12/02	< 100	< 1	< 1	280	< 1	< 1	34,000	15	< 1	1.2	NA	NA	< 100	< 3	15,000	< 10	NA	3.6	33,000	< 5	< 1 UJ	83,000	< 1	< 10	< 10	330
	11/27/01	< 100	< 1	< 1	260	< 1	< 1	40,000	23 J	< 1	1	NA	NA	< 100	< 3	53,000	< 10	NA	5.2	900	< 5	< 1	44,000	< 1	< 10	74	450
DUP1127012A	11/27/01	< 100	< 1	< 1	310	< 1	< 1	40,000	24 J	< 1	1.2	NA	NA	< 100	< 3	53,000	< 10	NA	5.4	1,200	< 5	< 1	48,000	< 1	< 10	110	470
LF01GW04CL	11/27/01	< 200	0.26 J	< 2.0	310	< 1	< 1	36,000	21	0.19 J	1.2 BJ	NA	NA	< 200	< 200	48,000	< 5	NA	4	1,100	< 5	< 1	40,000	< 1	5.2	60 B	480
	08/29/01	< 100	1.7	< 1	690 J+	< 1	< 1	38,000	22	< 1	1.6	NA	NA	100	< 3	56,000	< 10	NA	4.7	< 500	< 5	< 1 UJ	50,000	< 1	< 10	180	450
	05/17/01	< 100	1.8 J	< 1 UJ	480 J	< 1 UJ	< 1 UJ	40,000 J	21 J	< 1 UJ	< 1 UJ	NA	NA	110 J	< 3 UJ	59,000	< 10 UJ	NA	4.5 J	1,100 J	< 5 UJ	< 1 UJ	45,000	< 1 UJ	< 10 UJ	200 J	520
	05/11/99	< 100	< 5	< 5	37.1	< 4	< 2	34,900	19.8	< 10	< 10	NA	NA	< 100	< 3	45,500	< 10	NA	< 20	< 5,000	< 5	< 2	36,000	< 2	< 10	< 20	484
	02/10/99	< 100	< 5	< 5	38.2	< 4	< 2	36,600	22.2	< 10	11.8	NA	NA	< 100	4.5	46,600	< 10	NA	< 20	< 5,000	< 5	< 2	36,400	< 2	< 10	20.3	370
	11/10/98	< 100	< 5	< 5	34.4	< 4	< 2	32,800	19.1	< 10	43.1	NA	NA	< 100	< 3	43,500	17.8	< 0.2	< 20	< 5,000	< 5	< 2	33,800	< 2	< 10	44	455
	08/12/98	< 100	< 5	< 5	34.4	< 4	< 2	33,700	21.9	< 10	< 10	NA	NA	< 100	< 3	45,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	34,900	< 2	< 10	< 20	393
	04/10/98	< 100	< 5	< 5	36	< 4	< 2	35,000	21	< 10	< 10	NA	NA	< 100	< 3	48,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	34,000	< 2	< 10	< 20	400
	01/06/98	< 100	< 5	< 5	31.8	< 4	< 2	35,200	22.9	< 10	< 10	18	18.9	< 100	< 3	45,600	< 10	< 0.2	< 20	< 5,000	< 5	< 2	34,300	< 2	< 10	< 20	441
	11/06/97	< 100	< 5	< 5	33	< 4	< 2	34,000	20	< 10	< 10	NA	NA	< 100	< 3	49,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	36,000	< 2	< 10	< 20	490
	08/07/97	< 100	< 5	< 5	36	< 4	< 2	37,000	19	< 10	< 10	NA	NA	< 100	< 3	47,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	34,000	< 2	< 10	< 20	410
	05/08/97	< 100	< 5	< 5	31	< 4	< 2	34,000	17	< 10	< 10	NA	NA	< 100	< 3	45,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	31,000	< 2	< 10	< 20	480
	02/05/97	< 100	< 5	< 5	27	< 4	< 2	29,000	17	< 10	11	NA	NA	< 100	3.5	39,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	34,000	< 2	< 10	37	380 (J29)
	10/30/96	< 100 U	< 5 U	< 5 U	29	< 4 U	< 2 U	35,000	19	< 10 U	< 10 U	NA	NA	< 100 U	< 3 U	45,000	< 10 U	< 0.2 U	< 20 U	< 5,000 U	< 5 U	< 2 U	33,000	< 2 U	< 10 U	< 20 U	NS
	08/05/96	< 100 U	< 5 U	< 5 U	27	< 2 U	< 0.5 U	35,000	18	< 10 U	6	NA	NA	< 100 U	< 1 U	43,000	< 10 U	< 0.2 U	7	< 5,000 U	< 5 U	< 0.5 U	35,000	< 2 U	< 10 U	< 20 U	NS
	05/21/96	< 100 U	< 5 U	< 5 U	27	< 2 U	< 0.5 U	36,000	16	< 10 U	2	NA	NA	< 100 U	< 1 U	46,000	< 10 U	< 0.2 U	< 5 U	< 5,000 U	< 5 U	< 0.5 U	36,000	< 2 U	< 10 U	< 20 U	NS
	03/11/96	510	5	< 5 U	39	< 2 U	< 0.5 U	37,400	24	< 10 U	< 1 U	NA	NA	1300	2	49,600	25	< 0.2 U	10	< 5,000 U	< 5 U	< 0.5 U	35,000	< 2 U	< 10 U	< 20 U	NS
	12/18/95	< 100	< 5	< 5	31	< 2	< 0.5	38,200	20	< 10	< 1	NA	NA	< 100	< 1	50,100	< 10	< 0.2	6	< 5,000	< 5	< 0.5	44,000	< 2	< 10	< 20	NS
	09/14/95	< 200 U	< 60 U	< 5 U	35	< 2 U	< 2 U	33,000	17	< 20 U	< 10 U	NA	NA	110	< 3 U	44,000	27	< 0.2 U	< 20 U	1,500	5.9	< 5 U	43,000	< 5 U	< 10 U	24	NS
	11/08/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	434
	09/10/92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	502
LF01GW05	02/28/07	< 100	< 1	< 5	78	< 2	< 1	32,000	< 10	< 10	< 1	NA	NA	< 100	< 3	48,000 J	< 10	NA	< 20	< 500	< 5	< 1	35,000	< 1	< 10	< 20	380
	03/20/06	< 100	< 1	< 5	78	< 2	< 1	32,000	< 10	< 10	< 1	NA	NA	< 100	< 3	51,000	< 10	NA	< 20	< 500	< 5	< 1	37,000	< 1	< 10	< 20	390
	03/15/05	< 100	< 1	< 5	79	< 2	< 1	30,000	< 10	< 10	< 1	NA	NA	< 100	< 3	51,000	< 10	NA	< 20	< 500	< 5	< 1	37,000	< 1	< 10	< 20	400
	03/16/04	< 100	< 1	< 5	130 J-	< 2	< 1	38,000	< 10	< 10	2	NA	NA	< 100	< 3	47,000	< 10	NA	< 20	1,000	< 5	< 1	40,000	< 1	< 10	< 20	330
	03/12/03	< 100	< 1	< 1	83	< 1	< 1	33,000	2.3	< 1	< 1	NA	NA	< 100 UJ	< 3	56,000	11	NA	18	< 500	< 5	< 1 UJ	40,000	< 1	< 10	< 10	400
	12/03/02	< 100	< 1	< 1	84	< 1	< 1	34,000	3.2 J	< 1	< 1	NA	NA	< 100	< 3	51,000	< 10	NA	17	< 500	< 5	< 1 UJ	36,000	< 1	< 10	< 10	360
	08/27/02	< 100	< 1	< 1	420	< 1	< 1	36,000	5.2 J	< 1	< 1	NA	NA	< 100	< 3	56,000	13	NA	17	< 500	< 5	< 1 UJ	41,000	< 1	< 10	140	310
	05/29/02	< 100	< 1	< 1	410	< 1	1	35,000	1.1	< 1	< 1	NA	NA	< 100	< 3	57,000	15	NA	18	< 500	< 5	< 1 UJ	42,000	< 1	< 10	170	430
	03/11/02	100	< 1	< 1	370	< 1	**41**	38,000	2.1	< 1	4	NA	NA	210	< 3	13,000	< 10	NA	13	8,500	< 5	< 1 UJ	17,000	< 1	< 10	71	210
	11/27/01	< 100	1.3	< 1	510	< 1	1.4	36,000	4.5	< 1	1.7	NA	NA	< 100	< 3	58,000	16	NA	19	1,200	< 5	< 1	47,000	< 1	< 10	210	410
	08/28/01	< 100	2.8	< 1	770	< 1	< 1	35,000	1.6	< 1	3.8	NA	NA	180	< 3	58,000	19	NA	20	960	< 5	< 1	45,000	< 1	< 10	170	400
	05/16/01	< 100	1.2	< 1	550	< 1	< 1	< 500 R	1.5 J	< 1	< 1	NA	NA	1,500	< 3	56,000	63	NA	14	790 J	< 5	< 1	44,000	< 1	< 10	330	480
	05/13/99	< 100	< 5	< 5	78.5	< 4	< 2	34,500	< 10	< 10	< 10	NA	NA	< 100	< 3	54,400	15.8	NA	< 20	< 5,000	< 5	< 2	39,300	< 2	< 10	< 20	486
	02/11/99	< 100	< 5	< 5	84.9	< 4	< 2	36,200	< 10	< 10	< 10	NA	NA	< 100	< 3	54,500	13.5	NA	< 20	< 5,000	< 5	< 2	39,000	< 2	< 10	24.6	700
	11/12/98	< 100	< 5	< 5	74.6	< 4	< 2	33,000	< 10	< 10	< 10	NA	NA	< 100	< 3	50,900	15.9	< 0.2	< 20	< 5,000	< 5	< 2	32,900	< 2	< 10	< 20	485
	08/11/98	< 100	< 10	< 5	76.6	< 2	< 2	35,500	5.6	< 5	< 10	NA	NA	< 50	< 5	55,500	15.8	< 0.5	19.4	405	< 10	< 10	40,300	< 10	< 10	17.6	482
	04/09/98	< 100	< 5	< 5	90	< 4	**14**	33,000	< 10	< 10	27	NA	NA	< 100	< 3	49,000	13	< 0.2	< 20	< 5,000	< 5	< 2	35,000	< 2	< 10	86	400
	01/05/98	< 100	< 5	< 5	81.8	< 4	< 2	35,300	< 10	< 10	< 10	2.1	5.1	< 100	< 3	53,600	< 10	< 0.2	< 20	< 5,000	< 5	< 2	40,900	< 2	< 10	< 20	454
	11/06/97	< 100	< 5	< 5	79	< 4	< 2	33,000	< 10	< 10	< 10	NA	NA	< 100	< 3	57,000	< 10	< 0.2	23	< 5,000	< 5	< 2	38,000	< 2	< 10	< 20	500
	08/07/97	< 100	< 5	< 5	81	< 4	< 2	37,000	< 10	< 10	< 10	NA	NA	< 100	< 3	56,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	37,000	< 2	< 10	< 20	470
	05/08/97	< 100	< 5	< 5	75	< 4	< 2	34,000	< 10	< 10	< 10	NA	NA	< 120 (U4)	< 3	54,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	35,000	< 2	< 10	< 20	440
	02/06/97	< 100	< 5	< 5	64	< 4	2	30,000	< 10	< 10	< 10	NA	NA	< 100	< 3	47,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	36,000	< 2	< 10	28	350 (J29)
	10/31/96	< 100 U	< 5 U	< 5 U	100	< 4 U	< 2 U	33,000	< 10 U	< 10 U	< 10 U	NA	NA	< 100 U	< 3 U	49,000	< 10 U	< 0.2 U	< 20 U	< 5,000 U	< 5 U	< 2 U	36,000	< 2 U	< 10 U	< 20 U	NS
	08/06/96	< 100 U	< 5 U	< 5 U	63	< 2 U	< 0.5 U	32,000	9	< 10 U	8	NA	NA	< 100 U	< 1 U	46,000	< 10 U	< 0.2 U	14	< 5,000 U	< 5 U	< 0.5 U	33,000	< 2 U	< 10 U	14	NS
	05/22/96	< 100 U	< 5 U	< 5 U	62	< 2 U	< 0.5 U	30,000	9	< 10 U	< 1 U	NA	NA	< 100 U	< 1 U	48,000	< 10 U	< 0.2 U	12	< 5,000 U	< 5 U	< 0.5 U	33,000	< 2 U	< 10 U	< 20 U	NS
	03/12/96	< 100 U	< 5 U	< 5 U	61	< 2 U	< 0.5 U	32,500	9	< 10 U	< 1 U	NA	NA	< 100 U	< 1 U	49,500	< 10 U	< 0.2 U	14	< 5,000 U	< 5 U	< 0.5 U	31,000	< 2 U	< 10 U	68	NS

Table A-6-3
Results of Total and Dissolved Metals Analyses
Fill Site 1, Landfill 2, and El Polin Spring
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium	Hexavalent Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7196	SW7199	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW7470	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Level[2]		--	**6**	**10**	--	**4**	**5**	--	**50**	--	**1,000**	--	--	--	**15**	--	--	**2**	--	--	**50**	**50**	--	**2**	--	**5,000**	--
LF01GW05	12/19/95	< 100	< 5	< 5	62	< 2	< 0.5	30,700	12	< 10	1	NA	NA	< 100	< 1	48,300	< 10	< 0.2	14	< 5,000	< 5	< 0.5	40,000	< 2	< 10	< 20	NS
	09/15/95	< 200 U	< 60 U	< 5 U	58	< 2 U	< 2 U	24,000	10	< 20 U	< 10 U	NA	NA	< 100 U	< 3 U	40,000	< 10 U	< 0.2 U	< 20 U	< 500 U	7.2	< 5 U	39,000	< 5 U	< 10 U	27	NS
	11/08/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	464
	09/10/92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	427
LF01GW06	02/28/07	< 100	1.4	< 5	30	< 2	5	32,000	< 10	< 10	7.6 b	NA	NA	< 100	< 3	4,100 J	< 10	NA	< 20	8,500	< 5	< 1	14,000	< 1	< 10	770	190
	03/20/06	< 100	< 1	< 5	22	< 2	3.3	19,000	< 10	< 10	4.2	NA	NA	< 100	< 3	3,100	< 10	NA	< 20	3,400	< 5	< 1	6,200	< 1	< 10	460	140
	03/15/05	< 100	< 1	< 5	24	< 2	**6.6**	28,000	< 10	< 10	6.2	NA	NA	< 100	< 3	4,700	< 10	NA	< 20	5,100	< 5	< 1	8,800	< 1	< 10	790	150
	03/17/04	< 100	< 1	< 5	28	< 2	**5.7**	30,000	11	< 10	2.6	NA	NA	< 100	< 3	28,000	< 10	NA	< 20	3,900	< 5	< 1 UJ	26,000	< 1	< 10	620	280
	03/13/03	< 100	1.4	< 1	31	< 1	**23**	31,000	5	< 1	6.4	NA	NA	110	< 3	11,000	< 10	NA	5.4	33,000	< 5	< 1 UJ	37,000 J-	< 1	< 10	1,800	190
	12/03/02	< 100	1.1	< 1	36	< 1	< 1	31,000	18 J	< 1	< 1	NA	NA	< 100	< 3	42,000	< 10	NA	5.1	1,200	< 5	< 1 UJ	30,000	< 1	< 10	< 10	350
	08/27/02	< 100	< 1	< 1	260	< 1	< 1	30,000	21 J	< 1	< 1	NA	NA	< 100	< 3	43,000	< 10	NA	5	1,600	< 5	< 1 UJ	32,000	< 1	< 10	67	400
DUP0827022A	08/27/02	< 100	< 1	< 1	480	< 1	< 1	32,000	21 J	< 1	< 1	NA	NA	< 100	< 3	46,000	< 10	NA	5.1	1,500	< 5	< 1 UJ	34,000	< 1	< 10	230	350
	05/30/02	< 100	< 1	< 1	160	< 1	< 1	34,000	19	< 1	< 1	NA	NA	< 100	< 3	48,000	< 10	NA	4.7	2,400	< 5	< 1 UJ	37,000	< 1	< 10	79	410
DUP0530021C	05/30/02	< 100	< 1	< 1	110	< 1	1	34,000	19	< 1	< 1	NA	NA	< 100	< 3	47,000	< 10	NA	5	2,500	< 5	< 1 UJ	37,000	< 1	< 10	48	410
	03/12/02	140	1.1	< 1	460	< 1	**49**	38,000	12	< 1	3.4	NA	NA	220	< 3	31,000	< 10	NA	5.7	7,200	< 5	< 1 UJ	30,000	< 1	< 10	1,600	260
	11/27/01	< 100	1.4	< 1	470	< 1	1.2	34,000	23 J	< 1	1.5	NA	NA	< 100	< 3	48,000	< 10	NA	6.3	4,700	< 5	< 1	42,000	< 1	< 10	200	410
	08/28/01	< 100	1.6	< 1	770	< 1	< 1	35,000	20	< 1	3.3	NA	NA	160	< 3	50,000	< 10	NA	6.4	4,200	< 5	< 1	42,000	< 1	< 10	200	390
	05/17/01	< 100	1.6 J	< 1 UJ	440 J	< 1 UJ	4.7 J	34,000 J	21 J	< 1 UJ	< 1 UJ	NA	NA	< 100 UJ	< 3 UJ	51,000	< 10 UJ	NA	5.8 J	2,800 J	< 5 UJ	< 1 UJ	37,000	< 1 UJ	< 10 UJ	680 J	480
	05/12/99	< 100	< 5	< 5	41.5	< 4	2.3	32,200	18.6	< 10	< 10	NA	NA	< 100	< 3	42,500	< 10	< 0.2	< 20	< 5,000	< 5	< 2	29,000	< 2	< 10	52 (J33)	429
	02/10/99	< 100	< 5	< 5	32.2	< 4	**64.7**	35,700	< 10	< 10	16.2	NA	NA	113	7.2 (J33)	8,310 (J33)	< 10	NA	< 20	8,650	< 5	< 2	14,200	< 2	< 10	1,610 (J33)	130 (J33)
	11/11/98	< 100	< 5	< 5	44	< 4	< 2	32,100	22.4	< 10	13.8	NA	NA	115	5.6	43,400	< 10	< 0.2	< 20	< 5,000	< 5	< 2	29,800	3.2	< 10	40.5	432
	08/13/98	< 100	< 5	< 5	42	< 4	< 2	32,000	18	< 10	< 10	NA	NA	< 100	< 3	44,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	32,000	< 2	< 10	33	450
	04/13/98	< 100	< 5	< 5	44	< 4	< 2	33,000	19	< 10	13	NA	NA	< 100	< 3	47,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	33,000	< 2	< 10	36	390
	01/06/98	< 100	< 5	< 5	39.9	< 4	4.9	33,500	17.7	< 10	< 10	7.9	10.7	< 100	< 3	43,900	< 10	< 0.2	< 20	< 5,000	< 5	< 2	32,900	< 2	< 10	162	405
	11/05/97	< 100	< 5	< 5	42	< 4	< 2	30,000	18	< 10	< 10	NA	NA	< 100	< 3	44,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	33,000	< 2	< 10	< 20	440
	08/06/97	< 100	< 5	< 5	44	< 4	< 2	33,000	19	< 10	< 10	NA	NA	< 100	< 3	45,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	32,000	< 2	< 10	< 20	390
	05/07/97	< 100	< 5	< 5	43	< 4	< 2	31,000 (J9)	17	< 10	< 10	NA	NA	< 100	< 3	43,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	31,000 (J9)	< 2	< 10	< 20	450
	02/05/97	< 100	< 5	< 5	41	< 4	< 2	29,000	18	< 10	31	NA	NA	< 100	21	41,000	15	< 0.2	< 20	< 5,000	< 5	< 2	33,000	< 2	< 10	96	370 (J29)
	10/30/96	< 100 U	< 5 U	< 5 U	44	< 4 U	< 2 U	33,000	18	< 10 U	< 10 U	NA	NA	< 100 U	< 3 U	44,000	< 10 U	< 0.2 U	< 20 U	< 5,000 U	< 5 U	< 2 U	32,000	< 2 U	< 10 U	< 20 U	NS
	08/05/96	< 100 U	< 5 U	< 5 U	45	< 2 U	< 0.5 U	32,000	18	< 10 U	7	NA	NA	< 100 U	< 1 U	44,000	< 10 U	< 0.2 U	9	< 5,000 U	< 5 U	< 0.5 U	32,000	< 2 U	< 10 U	54	NS
	05/23/96	< 100 U	< 5 U	< 5 U	39	< 2 U	< 0.5 U	31,000	14	< 10 U	< 1 U	NA	NA	< 100 U	< 1 U	42,000	< 10 U	< 0.2 U	< 5 U	< 5,000 U	< 5 U	< 0.5 U	29,000	< 2 U	< 10 U	30	NS
	03/11/96	< 100 U	< 5 U	< 5 U	54	< 2 U	**14**	48,200	5	< 10 U	3	NA	NA	< 100 U	2	22,700	18	< 0.2 U	6	5,410	< 5 U	< 0.5 U	18,000	< 2 U	< 10 U	3,400	NS
	12/18/95	< 100	< 5	< 5	39	< 2	< 0.5	31,800	11	< 10	1	NA	NA	< 100	< 1	33,900	< 10	< 0.2	8	< 5,000	< 5	< 0.5	27,000	< 2	< 10	270	NS
	09/14/95	< 200 U	< 60 U	< 5 U	36	< 2 U	< 2 U	26,000	16	< 20 U	< 10 U	NA	NA	< 100 U	8.2	38,000	< 10 U	< 0.2 U	< 20 U	690	6.7	< 5 U	32,000	< 5 U	< 10 U	140	NS
	11/08/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	418
	08/28/92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	461
LF01GW07	02/28/07	< 100	< 1	< 5	41	< 2	< 1	33,000	22	< 10	< 1	NA	NA	< 100	< 3	48,000 J	< 10	NA	< 20	< 500	< 5	< 1	35,000	< 1	< 10	< 20	410
	03/20/06	< 100	< 1	< 5	39	< 2	< 1	32,000	23	< 10	< 1	NA	NA	< 100	< 3	49,000	< 10	NA	< 20	640	< 5	< 1	37,000	< 1	< 10	< 20	360
	03/15/05	< 100	< 1	< 5	22	< 2	< 1	20,000	< 10	< 10	2.4	NA	NA	< 100	< 3	26,000	< 10	NA	< 20	1,600	< 5	< 1	21,000	< 1	< 10	< 20	440
	03/17/04	< 100	< 1	< 5	34	< 2	< 1	35,000	17	< 10	1.4	NA	NA	< 100	< 3	46,000	< 10	NA	< 20	1,200	< 5	< 1 UJ	36,000	< 1	< 10	< 20	410
	03/13/03	< 100	1	< 1	36	< 1	< 1	31,000	18	< 1	1.2	NA	NA	< 100	< 3	45,000	< 10	NA	5	780	< 5	< 1 UJ	37,000 J-	< 1	< 10	< 10	260
	12/03/02	< 100	< 1	< 1	40	< 1	< 1	34,000	22 J	< 1	< 1	NA	NA	< 100	< 3	52,000	< 10	NA	4	< 500	< 5	< 1 UJ	38,000	< 1	< 10	< 10	530
	08/27/02	< 100	< 1	< 1	410	< 1	< 1	35,000	25 J	< 1	< 1	NA	NA	< 100	< 3	56,000	< 10	NA	4.2	640	< 5	< 1 UJ	41,000	< 1	< 10	150	390
	05/29/02	< 100	< 1	< 1	440	< 1	< 1	34,000	20	< 1	< 1	NA	NA	< 100	< 3	53,000	< 10	NA	4.1	800	< 5	< 1 UJ	41,000	< 1	< 10	160	530
	03/12/02	< 100	< 1	< 1	380	< 1	< 1	31,000	21	< 1	1.3	NA	NA	< 100	< 3	50,000	< 10	NA	5.3	910	< 5	3.2 J-	39,000	< 1	< 10	110	380
	11/27/01	< 100	< 1	< 1	430	< 1	< 1	36,000	29 J	< 1	1.2	NA	NA	1,000	< 3	59,000	< 10	NA	5.7	930	< 5	< 1	44,000	< 1	< 10	170	420
	08/29/01	< 100	1.3	< 1	400 J+	< 1	< 1	32,000	25	< 1	1.1	NA	NA	< 100	< 3	56,000	< 10	NA	4.3	< 500	< 5	< 1 UJ	45,000	< 1	< 10	170	450
	05/15/01	< 100	< 1	< 1	52	< 1	< 1	< 500 R	26 J	< 1	1	NA	NA	250	< 3	220,000	< 10	NA	5.1	560 J	< 5	< 1	160,000	< 1	< 10	< 10	2,470
DUP0515013A	05/15/01	< 100	< 1	< 1	53	< 1	< 1	< 500 R	26 J	< 1	< 1	NA	NA	250	< 3	220,000	< 10	NA	4.4	540 J	< 5	< 1	170,000	< 1	< 10	13	510
LF01GW07CL	05/15/01	< 200	<2	<2	46	< 1	< 1	33,000	27	< 1	<2	NA	NA	< 200	< 5	54,000	< 5	NA	4.2	< 1,000	< 5	< 1	38,000	< 1	< 5	12	440
	05/10/99	< 100	< 5	< 5	41.6	< 4	< 2	34,700	25.8	< 10	< 10	NA	NA	< 100	< 3	52,400	< 10	NA	< 20	< 5,000	< 5	< 2	39,000	< 2	< 10	36.9	474
	02/08/99	< 100	< 5	< 5	38.2	< 4	< 2	33,500	24	< 10	< 10	NA	NA	< 100	< 3	51,100	< 10	NA	< 20	< 5,000	< 5	< 2	37,800	< 2	< 10	< 20	446
	11/09/98	< 100	< 5	< 5	46.8	< 4	< 2	36,000	29	< 10	20.8	NA	NA	< 100	< 3	54,300	< 10	< 0.2	< 20	< 5,000	< 5	< 2	47,700	< 2	< 10	20.8	492
	08/11/98	< 100	< 10	< 5	39.9	< 2	< 2	33,300	25.1	< 5	< 10	NA	NA	< 50	< 5	52,900	< 5	< 0.5	< 5	691	< 10	< 10	40,500	< 10	< 10	6.5	467
LF01GW07CL	04/09/98	< 100	< 5	< 5	40	< 4	< 2	33,000	23	< 10	11	NA	NA	< 100	< 3	51,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	37,000	< 2	< 10	< 20	440
	01/05/98	< 100	< 5	< 5	35.1	< 4	< 2	35,000	28.5	< 10	< 10	25	24.7	< 100	< 3	54,300	< 10	< 0.2	< 20	< 5,000	< 5	< 2	39,400	< 2	< 10	< 20	496
	11/06/97	< 100	< 5	< 5	41	< 4	< 2	32,000	26	< 10	< 10	NA	NA	< 100	< 3	56,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	40,000	< 2	< 10	< 20	520

Table A-6-3
Results of Total and Dissolved Metals Analyses
Fill Site 1, Landfill 2, and El Polin Spring
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium	Hexavalent Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7196	SW7199	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW7470	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Level[2]		--	**6**	**10**	--	**4**	**5**	--	**50**	--	**1,000**	--	--	--	**15**	--	--	**2**	--	--	**50**	**50**	--	**2**	--	**5,000**	--
LF01GW07	08/07/97	< 100	< 5	< 5	42	< 4	< 2	37,000	25	< 10	< 10	NA	NA	< 100	< 3	57,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	39,000	< 2	< 10	< 20	500
	05/08/97	< 100	< 5	< 5	40	< 4	< 2	33,000	22	< 10	< 10	NA	NA	< 100	< 3	53,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	36,000	< 2	< 10	< 20	540
	02/06/97	< 100	< 5	< 5	33	< 4	< 2	32,000	14	< 10	< 10	NA	NA	< 100	< 3	34,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	27,000	< 2	< 10	43	330 (J29)
	10/31/96	< 100 U	< 5 U	5	43	< 4 U	< 2 U	37,000	26	< 10 U	< 10 U	NA	NA	< 100 U	< 3 U	57,000	< 10 U	< 0.2 U	< 20 U	< 5,000 U	< 5 U	< 2 U	38,000	< 2 U	< 10 U	< 20 U	NS
	08/06/96	< 100 U	< 5 U	< 5 U	39	< 2 U	< 0.5 U	36,000	25	< 10 U	< 8	NA	NA	< 100 U	< 1 U	55,000	< 10 U	< 0.2 U	6	< 5,000 U	< 5 U	< 0.5 U	38,000	< 2 U	< 10 U	< 20 U	NS
	05/22/96	< 100 U	< 5 U	< 5 U	27	< 2 U	< 0.5 U	37,000	20	< 10 U	< 1 U	NA	NA	< 100 U	< 1 U	58,000	< 10 U	< 0.2 U	< 5 U	< 5,000 U	< 5 U	< 0.5 U	38,000	< 2 U	< 10 U	< 20 U	NS
	03/12/96	< 100 U	< 5 U	< 5 U	28	< 2 U	< 0.5 U	37,800	23	< 10 U	< 1 U	NA	NA	< 100 U	< 1 U	61,300	< 10 U	< 0.2 U	< 5 U	< 5,000 U	< 5 U	< 0.5 U	37,000	< 2 U	< 10 U	< 20 U	NS
	12/19/95	< 100	< 5	< 5	32	< 2	< 0.5	40,400	23	< 10	5	NA	NA	< 100	< 1	63,700	< 10	< 0.2	< 5	< 5,000	< 5	< 0.5	46,000	< 2	< 10	< 20	NS
	09/15/95	280	< 60 U	< 5 U	34	< 2 U	< 2 U	35,000	20	< 20 U	< 10 U	NA	NA	180	< 3 U	58,000	51	< 0.2 U	< 20 U	680	6.5	< 5 U	43,000	< 5 U	< 10 U	110	NS
LF02GW01	02/28/07	< 100	< 1	< 5	66	< 2	< 1	18,000	< 10	< 10	< 1	NA	NA	< 100	< 3	54,000 J	< 10	NA	< 20	< 500	< 5	< 1	26,000	< 1	< 10	< 20	320
	03/16/06	< 100 UJ	< 1	< 5	63	< 2	< 1	15,000	< 10	< 10	< 1	NA	NA	< 100	< 3	55,000	< 10	NA	< 20	540	< 5	< 1	28,000 J	< 1	< 10	< 20	450 J
	03/15/05	< 100	< 1	< 5	63	< 2	< 1	15,000	< 10	< 10	< 1	NA	NA	< 100	< 3	54,000	< 10	NA	< 20	< 500	< 5	< 1	28,000	< 1	< 10	< 20	360
	03/16/04	< 100	< 1	< 5	61 J-	< 2	< 1	17,000	< 10	< 10	3.8	NA	NA	< 100	< 3	58,000	< 10	NA	< 20	< 500	< 5	< 1	32,000	< 1	< 10	< 20	340
	03/13/03	< 100	< 1	< 1	58	< 1	< 1	15,000	8.3	< 1	< 1	NA	NA	< 100	< 3	49,000	< 10	NA	< 1	860	< 5	< 1 UJ	36,000 J-	< 1	< 10	81	350
	12/03/02	< 100	< 1	< 1	60	< 1	< 1	15,000	7.6 J	< 1	< 1	NA	NA	< 100	< 3	52,000	< 10	NA	< 1	< 500	< 5	< 1 UJ	27,000	< 1	< 10	< 10	330
	08/27/02	< 100	< 1	< 1	360	< 1	< 1	14,000	8.8 J	< 1	< 1	NA	NA	< 100	< 3	53,000	< 10	NA	< 1	550	< 5	< 1 UJ	28,000	< 1	< 10	94	350
	05/29/02	< 100	< 1	< 1	360	< 1	< 1	15,000	6.9	< 1	< 1	NA	NA	< 100	< 3	55,000	< 10	NA	< 1	< 500	< 5	< 1 UJ	29,000	< 1	< 10	100	310
	03/11/02	< 100	< 1	< 1	400	< 1	< 1	15,000	9.7	< 1	< 1	NA	NA	< 100	< 3	58,000	< 10	NA	< 1	520	< 5	< 1 UJ	31,000	< 1	< 10	98	340
	11/28/01	< 100	< 1	< 1	450	< 1	< 1	16,000	16 J	< 1	1.6	NA	NA	< 100	< 3	59,000	< 10	NA	1.1	760	< 5	< 1	31,000	< 1	< 10	85	310
	08/28/01	< 100	1.3	< 1	610	< 1	< 1	15,000	7.4	< 1	1.4	NA	NA	< 100	< 3	55,000	< 10	NA	< 1	510	< 5	< 1	31,000	< 1	< 10	110	340
	05/17/01	< 100	1.9 J	1.2 J	470 J	< 1 UJ	< 1 UJ	16,000 J	9 J	< 1 UJ	< 1 UJ	NA	NA	< 100 UJ	< 3 UJ	60,000	< 10 UJ	NA	< 1 UJ	600 J	< 5 UJ	< 1 UJ	31,000	< 1 UJ	< 10 UJ	160 J	350
	05/11/99	< 100	< 5	< 5	55.8	< 4	< 2	14,400	< 10	< 10	< 10	NA	NA	< 100	< 3	51,400	< 10	NA	< 20	< 5,000	< 5	< 2	26,600	< 2	< 10	< 20	334
	02/09/99	< 100	< 5	< 5	59.5	< 4	< 2	15,000	< 10	< 10	< 10	NA	NA	< 100	< 3	51,500	< 10	NA	< 20	< 5,000	< 5	< 2	26,600	< 2	< 10	< 20	681
	11/10/98	138	< 5	< 5	57.1	< 4	< 2	14,700	< 10	< 10	19.9	NA	NA	298	< 3	51,400	31.8	< 0.2	< 20	< 5,000	< 5	< 2	27600	< 2	< 10	26.8	546
	08/12/98	< 100	< 5	< 5	56.4	< 4	< 2	14,000	< 10	< 10	10.5	NA	NA	< 100	< 3	50,200	< 10	< 0.2	< 20	< 5,000	< 5	< 2	27,100	< 2	< 10	< 20	357
	04/10/98	< 100	< 5	< 5	57	< 4	< 2	14,000	< 10	< 10	15 (J33)	NA	NA	< 100	< 3	55,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	27,000	< 2	< 10	< 20	330
	01/06/98	< 100	< 5	< 5	51.3	< 4	< 2	14,400	< 10	< 10	< 10	5	7.2	< 100	< 3	50,400	< 10	< 0.2	< 20	< 5,000	< 5	< 2	26,500	< 2	< 10	< 20	364
	11/03/97	< 100	< 5	< 5	55	< 4	< 2	15,000	14	< 10	< 10	NA	NA	< 100	< 3	53,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	28,000	< 2	< 10	< 20	370
	08/04/97	< 100	< 5	< 5	58	< 4	< 2	15,000	< 10	< 10	< 10	NA	NA	< 100	< 3	54,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	26,000	< 2	< 10	< 20	340
	05/05/97	< 100	< 5	< 5	58	< 4	< 2	14,000	< 10	< 10	< 10	NA	NA	< 100	< 3	52,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	24,000	< 2	< 10	< 20	380
	02/03/97	< 100	< 5	< 5	53	< 4	< 2	15,000	< 10	< 10	< 10	NA	NA	< 100	< 3	53,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	28,000	< 2	< 10	< 20	310 (J29)
	10/28/96	< 100 U	< 5 U	5.9	58	< 4 U	< 2 U	16,000	< 10 U	< 10 U	< 10 U	NA	NA	< 100 U	< 3 U	54,000	< 10 U	< 0.2 U	< 20 U	< 5,000 U	< 5 U	< 2 U	27,000	< 2 U	< 10 U	< 20 U	NS
	07/31/96	< 100 U	< 5 U	< 5 U	55	< 2 U	< 0.5 U	15,000	6	< 10 U	10	NA	NA	< 100 U	< 1 U	54,000	< 10 U	< 0.2 U	< 5 U	< 5,000 U	< 5 U	< 0.5 U	27,000	< 2 U	< 10 U	< 20 U	NS
	05/21/96	230	< 5 U	< 5 U	46	< 2 U	< 0.5 U	14,000	7	< 10 U	< 1 U	NA	NA	110	< 1 U	50,000	< 10 U	< 0.2 U	< 5 U	< 5,000 U	< 5 U	< 0.5 U	24,000	< 2 U	< 10 U	< 20 U	NS
	03/04/96	< 100 U	< 5 U	< 5 U	53	< 2 U	< 0.5 U	14,600	10	< 10 U	1	NA	NA	< 100 U	1	55,200	< 10 U	< 0.2 U	< 5 U	< 5,000 U	< 5 U	< 0.5 U	24,000	< 2 U	< 10 U	< 20 U	NS
	12/11/95	< 100	< 5	< 5	150	< 2	< 0.5	47,800	2	< 10	< 1	NA	NA	< 100	< 1	42,000	39	< 0.2	< 5	11,000	< 5	< 0.5	37,000	< 2	< 10	43	NS
	09/08/95	< 200 U	< 60 U	< 5 U	50	< 2 U	< 2 U	13,000	< 10 U	< 20 U	< 10 U	NA	NA	< 100 U	< 3 U	50,000	< 10 U	< 0.2 U	< 20 U	< 500 U	< 5 U	< 5 U	26,000	< 5 U	< 10 U	< 20 U	NS
	11/09/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	330
	08/28/92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	384
LF02GW02	02/28/07	< 100	< 1	< 5	220	< 2	< 1	36,000	< 10	< 10	< 1	NA	NA	< 100	< 3	130,000 J	14	NA	< 20	530	< 5	< 1	60,000	< 1	< 10	< 20	760
	03/20/06	< 100	< 1	< 5	220	< 2	< 1	34,000	< 10	< 10	< 1	NA	NA	< 100	< 3	130,000	12	NA	< 20	670	< 5	< 1	62,000	< 1	< 10	< 20	750
	03/15/05	< 100	< 1	< 5	200	< 2	< 1	32,000	< 10	< 10	< 1	NA	NA	< 100	< 3	130,000	220	NA	< 20	690	< 5	< 1	63,000	< 1	< 10	< 20	760
	03/16/04	< 100	1	< 5	240 J-	< 2	< 1	42,000	< 10	< 10	15	NA	NA	< 100	< 3	150,000	34	NA	< 20	710	< 5	< 1	74,000	< 1	< 10	< 20	790
	03/13/03	< 100	< 1	1	280	< 1	< 1	35,000	2.7	< 1	< 1	NA	NA	160	< 3	130,000	310	NA	1.5	1,000	< 5	< 1 UJ	63,000 J-	< 1	< 10	< 10	780
DUP0313032B	03/13/03	< 100	< 1	< 1	290	< 1	< 1	36,000	2	< 1	1.1	NA	NA	140	< 3	140,000	330	NA	1.4	990	< 5	< 1 UJ	64,000 J-	< 1	< 10	< 10	650
	12/03/02	< 100	1.2	1.3	340	< 1	< 1	35,000	3 J	< 1	< 1	NA	NA	120	< 3	130,000	970	NA	1.2	810	< 5	< 1 UJ	58,000	< 1	< 10	< 10	820
DUP1203023A	12/03/02	< 100	< 1	1.2	340	< 1	< 1	35,000	1.1 J	< 1	< 1	NA	NA	120	< 3	140,000	930	NA	1.1	830	< 5	< 1 UJ	61,000	< 1	< 10	< 10	820
	08/27/02	< 100	1.2	1.1	570	< 1	< 1	38,000	6 J	< 1	1.1	NA	NA	240	< 3	150,000	390	NA	< 1	930	< 5	< 1 UJ	66,000	< 1	< 10	96	470
DUP0827023A	08/27/02	< 100	< 1	1.1	520	< 1	< 1	38,000	5.9 J	< 1	< 1	NA	NA	230	< 3	150,000	410	NA	< 1	890	< 5	< 1 UJ	67,000	< 1	< 10	70	800
	05/29/02	< 100	< 1	< 1	350	< 1	< 1	37,000	< 1	< 1	< 1	NA	NA	< 100	< 3	150,000	170	NA	< 1	740	< 5	< 1 UJ	66,000	< 1	< 10	36	800
	03/11/02	< 100	< 1	1.3	490	< 1	< 1	36,000	< 1	< 1	< 1	NA	NA	120	< 3	190,000	220	NA	2.3	830	< 5	< 1 UJ	77,000	< 1	< 10	23	910
DUP0311022B	03/11/02	< 100	< 1	1.3	430	< 1	< 1	40,000	< 1	< 1	< 1	NA	NA	110	< 3	170,000	200	NA	2.2	780	< 5	< 1 UJ	69,000	< 1	< 10	25	880
LF02GW02CL	03/11/02	< 200	0.47 J	0.67 J	450	< 2	< 1	39,000	< 2	0.73 J	1.4 BJ	NA	NA	38 J	< 5	160,000	210	NA	2.2	< 1,000	19	< 1	67,000	< 1	< 5	61 B	1,100 J-
	11/28/01	< 100	1.3	2.5	680	< 1	< 1	43,000	10 J	< 1	1.6	NA	NA	260	< 3	170,000	630	NA	3.5	1,000	< 5	< 1	75,000	< 1	< 10	110	900
	08/28/01	< 100	1.3	2.3	940	< 1	< 1	39,000	< 1	< 1	2.7	NA	NA	320	< 3	160,000	540	NA	3.4	1,200	< 5	< 1	68,000	< 1	< 10	100	830
	05/17/01	< 100	1.8 J	1.5 J	540 J	< 1 UJ	< 1 UJ	41,000 J	1.8 J	< 1 UJ	1.5 J	NA	NA	130 J	< 3 UJ	180,000	890 J	NA	3.5 J	1,000 J	< 5 UJ	< 1 UJ	75,000	< 1 UJ	< 10 UJ	98 J	920
	05/12/99	< 100	< 5	< 5	345	< 4	< 2	43,200	< 10	< 10	< 10	NA	NA	< 100	< 3	161,000	492	< 0.2	< 20	< 5,000	< 5	< 2	66,000	< 2	< 10	< 20	1,280

Table A-6-3
Results of Total and Dissolved Metals Analyses
Fill Site 1, Landfill 2, and El Polin Spring
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium	Hexavalent Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7196	SW7199	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW7470	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Level[2]		--	**6**	**10**	--	**4**	**5**	--	**50**	--	**1,000**	--	--	--	**15**	--	--	**2**	--	--	**50**	**50**	--	**2**	--	**5,000**	--
LF02GW02	02/10/99	< 100	< 5	< 5	357	< 4	< 2	46,600	< 10	< 10	11.4	NA	NA	< 100	< 3	176,000	329	NA	< 20	< 5,000	< 5	< 2	69,100	< 2	< 10	22.5	914
	11/11/98	< 100	< 5	< 5	284	< 4	< 2	47,200	< 10	< 10	29.2	NA	NA	262	4.6	170,000	407	< 0.2	< 20	< 5,000	< 5	< 2	65,200	**2.3**	< 10	75	1,090
	08/13/98	< 100	< 5	< 5	360	< 4	< 2	44,000	< 10	< 10	10	NA	NA	< 100	< 3	170,000	400	< 0.2	< 20	< 5,000	< 5	< 2	67,000	< 2	< 10	< 20	860
	04/13/98	< 100	< 5	< 5	290	< 4	< 2	45,000	< 10	< 10	14	NA	NA	< 100	< 3	170,000	470	< 0.2	< 20	< 5,000	< 5	< 2	67,000	< 2	< 10	< 20	1,100
	01/07/98	< 100	< 5	< 5	341	< 4	< 2	50,700	< 10	< 10	< 10	< 10	< 0.5	110	< 3	186,000	406	< 0.2	< 20	< 5,000	< 5	< 2	71,200	< 2	< 10	< 20	1,200
	11/03/97	< 100	< 5	< 5	350	< 4	< 2	46,000	< 10	< 10	< 10	NA	NA	110	< 3	190,000	420	< 0.2	< 20	< 5,000	< 5	< 2	73,000	< 2	< 10	< 20	1,200
	08/04/97	< 100	< 5	< 5	320	< 4	< 2	56,000	< 10	< 10	< 10	NA	NA	390	< 3	210,000	490	< 0.2	< 20	< 5,000	< 5	< 2	75,000	< 2	< 10	< 20	1,100
	05/05/97	< 100	< 5	< 5	270	< 4	< 2	41,000	< 10	< 10	< 10	NA	NA	< 100	< 3	160,000	370	< 0.2	< 20	< 5,000	< 5	< 2	60,000	< 2	< 10	< 20	1,000
	02/03/97	< 100	< 5	< 5	250	< 4	< 2	39,000	< 10	< 10	< 10	NA	NA	< 100	< 3	150,000	330	< 0.2	< 20	< 5,000	< 5	< 2	61,000	< 2	< 10	< 20	1,100 (J29)
	10/28/96	< 100 U	< 5 U	11	320	< 4 U	< 2 U	42,000	< 10 U	< 10 U	< 10 U	NA	NA	< 100 U	< 3 U	160,000	310	< 0.2 U	< 20 U	< 5,000 U	< 5 U	< 2 U	63,000	< 2 U	< 10 U	< 20 U	NS
	07/31/96	< 100 U	< 5 U	< 5 U	280	< 2 U	< 0.5 U	43,000	< 1 U	< 10 U	6	NA	NA	< 100 U	< 1 U	160,000	340	< 0.2 U	< 5 U	< 5,000 U	< 5 U	< 0.5 U	68,000	< 2 U	< 10 U	< 20 U	NS
	05/22/96	< 100 U	< 5 U	< 5 U	270	< 2 U	< 0.5 U	36,000	< 1 U	< 10 U	5	NA	NA	< 100 U	< 1 U	140,000	230	< 0.2 U	< 5 U	< 5,000 U	< 5 U	< 0.5 U	58,000	< 2 U	< 10 U	< 20 U	NS
	03/04/96	< 100 U	< 5 U	< 5 U	251	< 2 U	< 0.5 U	36,900	1	< 10 U	< 1 U	NA	NA	< 100 U	< 1 U	143,000	348	< 0.2 U	< 5 U	< 5,000 U	< 5 U	< 0.5 U	56,000	< 2 U	< 10 U	< 20 U	NS
	12/11/95	< 100	< 5	< 5	54	< 2	1.9	37,700	12	< 10	3	NA	NA	< 100	< 1	65,300	< 10	< 0.2	< 5	5,480	< 5	< 0.5	45,000	< 2	< 10	27	NS
	09/06/95	< 200 U	< 60 U	< 5 U	220	< 2 U	< 2 U	27,000	< 10 U	< 20 U	< 10 U	NA	NA	< 100 U	< 3 U	110,000	180	< 0.2 U	< 20 U	< 500 U	< 5 U	< 5 U	52,000	< 5 U	< 10 U	< 20 U	NS
	11/09/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	730
	09/04/92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	699
LF02GW04	03/01/07	< 100	< 1	6.5	97	< 2	< 1 UJ	22,000	< 10	< 10	< 1	NA	NA	< 100	< 3	86,000	52	NA	< 20	1,100 J	< 5	< 1	61,000	< 1	< 10	< 20 UJ	500
	03/20/06	190	< 1	< 5	76	< 2	< 1	48,000	< 10	< 10	6.2	NA	NA	300	< 3	14,000	24	NA	68	9,000	< 5	< 1	30,000	< 1	< 10	< 20	340
	03/15/05	150	< 1	< 5	87	< 2	< 1	52,000	< 10	< 10	4.2	NA	NA	440	< 3	21,000	14	NA	61	6,700	< 5	< 1	45,000	< 1	< 10	< 20	470
	03/16/04	< 100	< 1	< 5	110 J-	< 2	< 1	54,000	< 10	< 10	3	NA	NA	210	< 3	61,000	88	NA	29	6,700	< 5	< 1	73,000	< 1	< 10	< 20	540
	03/13/03	< 100	< 1	2.9	80	< 1	< 1	26,000	2.6	1.4	1.3	NA	NA	160	< 3	69,000	150	NA	16	3,200	< 5	< 1 UJ	59,000 J-	< 1	< 10	< 10	610
	12/03/02	< 100	< 1	4.4	88	< 1	< 1	19,000	< 1 J	1.8	< 1	NA	NA	< 100	< 3	80,000	78	NA	11	800	< 5	< 1 UJ	60,000	< 1	< 10	< 10	420
	08/27/02	< 100	< 1	4.3	400	< 1	< 1	21,000	3.7 J	< 1	< 1	NA	NA	< 100	< 3	88,000	130	NA	11	1,100	< 5	< 1 UJ	65,000	< 1	< 10	88	580
	05/29/02	< 100	1.1	3.4	440	< 1	< 1	23,000	< 1	1.1	1.7	NA	NA	130	< 3	84,000	170	NA	15	2,400	< 5	< 1 UJ	66,000	< 1	< 10	84	570
	03/11/02	< 100	1.2	2.4	460	< 1	< 1	23,000	3.6	1.2	1.9	NA	NA	200	< 3	55,000	78	NA	60	4,700	< 5	< 1 UJ	57,000	< 1	< 10	110	400
	11/28/01	< 100	1.4	4.7	710	< 1	< 1	22,000	11 J	3.1	1.1	NA	NA	< 100	< 3	98,000	110	NA	11	1,700	< 5	< 1	76,000	< 1	< 10	180	470
	08/28/01	< 100	2.6	4.3	790	< 1	< 1	19,000	< 1	1.2	2.9	NA	NA	< 100	< 3	87,000	51	NA	9.4	950	< 5	< 1	66,000	< 1	< 10	120	570
	05/15/01	< 100	< 1	4.4	110	< 1	< 1	< 500 R	1.7 J	2	< 1	NA	NA	180	< 3	< 10,000	90	NA	10	750 J	< 5	< 1	< 10,000	< 1	< 10	14	560
	05/12/99	< 100	< 5	< 5	113	< 4	< 2	21,600	< 10	< 10	< 10	NA	NA	< 100	< 3	83,800	131	< 0.2	< 20	< 5,000	< 5	< 2	64,800	< 2	< 10	< 20	619
	02/11/99	< 100	< 5	< 5	117	< 4	< 2	20,500	< 10	< 10	< 10	NA	NA	< 100	< 3	90,100	66.8	NA	< 20	< 5,000	< 5	< 2	64,100	< 2	< 10	< 20	931
	11/11/98	< 100	< 5	< 5	115	< 4	< 2	20,000	< 10	< 10	14.3	NA	NA	258	< 3	87,700	58.1	< 0.2	< 20	< 5,000	< 5	< 2	59,800	**3.6**	< 10	38.2	593
	08/13/98	< 100	< 5	5.6	120	< 4	< 2	21,000	< 10	< 10	< 10	NA	NA	< 100	< 3	93,000	52	< 0.2	< 20	< 5,000	< 5	< 2	67,000	< 2	< 10	< 20	530
	04/13/98	< 100	< 5	< 5	140	< 4	< 2	25,000	< 10	< 10	15	NA	NA	< 100	< 3	110,000	65	< 0.2	< 20	< 5,000	< 5	< 2	74,000	< 2	< 10	22	720
	01/07/98	< 100	< 5	< 5	103	< 4	< 2	19,500	< 10	< 10	< 10	< 10	0.72	< 100	< 3	84,500	50.4	< 0.2	< 20	< 5,000	< 5	< 2	62,600	< 2	< 10	< 20	597
	11/04/97	< 100	< 5	< 5	110	< 4	< 2	19,000	< 10	< 10	< 10	NA	NA	< 100	< 3	87,000	50	< 0.2	< 20	< 5,000	< 5	< 2	64,000	< 2	< 10	< 20	620
	08/05/97	< 100	< 5	< 5	120	< 4	< 2	23,000	< 10	< 10	< 10	NA	NA	< 100	< 3	100,000	58	< 0.2	< 20	< 5,000	< 5	< 2	66,000	< 2	< 10	< 20	630
	05/06/97	< 100	< 5	< 5	120	< 4	< 2	21,000	< 10	< 10	< 10	NA	NA	< 100	< 3	97,000	56	< 0.2	< 20	< 5,000	< 5	< 2	61,000	< 2	< 10	< 20	640
	02/04/97	< 100	< 5	< 5	110	< 4	< 2	19,000	< 10	< 10	< 10	NA	NA	< 100	< 3	85,000	47	< 0.2	< 20	< 5,000	< 5	< 2	64,000	< 2	< 10	< 20	590 (J29)
	11/01/96	< 100 U	< 5 U	10	120	< 4 U	< 2 U	22,000	< 10 U	< 10 U	< 10 U	NA	NA	< 100 U	< 3 U	97,000	59	< 0.2 U	< 20 U	< 5,000 U	< 5 U	< 2 U	60,000	< 2 U	< 10 U	< 20 U	NS
	08/01/96	< 100 U	< 5 U	< 5 U	110	< 2 U	< 0.5 U	24,000	< 1 U	< 10 U	3	NA	NA	< 100 U	< 1 U	100,000	53	< 0.2 U	12	< 5,000 U	< 5 U	< 0.5 U	68,000	< 2 U	< 10 U	< 20 U	NS
	05/21/96	< 100 U	< 5 U	< 5 U	110	< 2 U	< 0.5 U	21,000	< 1 U	< 10 U	3	NA	NA	< 100 U	< 1 U	92,000	56	< 0.2 U	< 5 U	< 5,000 U	< 5 U	< 0.5 U	60,000	< 2 U	< 10 U	< 20 U	NS
	03/06/96	< 100 U	< 5 U	< 5 U	110	< 2 U	< 0.5 U	21,800	2	< 10 U	< 1 U	NA	NA	< 100 U	1	99,400	54	< 0.2 U	9	< 5,000 U	< 5 U	< 0.5 U	60,000	< 2 U	< 10 U	< 20 U	NS
	12/11/95	< 100	< 5	< 5	110	< 2	< 0.5	21,800	3	< 10	< 1	NA	NA	< 100	< 1	96,700	90	< 0.2	< 5	< 5,000	< 5	< 0.5	71,000	< 2	< 10	< 20	NS
	09/11/95	310	< 60 U	< 5 U	110	< 2 U	< 2 U	20,000	< 10 U	< 20 U	< 10 U	NA	NA	120	< 3 U	88,000	230	< 0.2 U	30	540	7.9	< 5 U	58,000	< 5 U	< 10 U	< 20 U	NS

Table A-6-3
Results of Total and Dissolved Metals Analyses
Fill Site 1, Landfill 2, and El Polin Spring
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium	Hexavalent Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7196	SW7199	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW7470	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Level[2]		--	**6**	**10**	--	**4**	**5**	--	**50**	--	**1,000**	--	--	--	**15**	--	--	**2**	--	--	**50**	**50**	--	**2**	--	**5,000**	--
Total Metals [3]																											
EPSP01	02/28/07	550	< 1	< 5	90	< 2	< 1	17,000	53	< 10	1.3	NA	NA	1,300	< 3	97,000	110	NA	34	< 500	< 5	< 1	33,000	< 1	< 10	< 20	NA
	03/16/06	< 100	< 1	< 5	75	< 2	< 1	13,000	28	< 10	1.2	NA	NA	180	< 3	74,000 J	65	NA	< 20	< 500 UJ	< 5	< 1	27,000	< 1	< 10	< 20	NA
	03/15/05	< 500	< 1	< 5	82	< 2	< 1	15,000	31	< 10	1.1	NA	NA	450	< 3	86,000	83	NA	22	< 500	< 5	< 1	31,000	< 1	< 10	< 20	NA
	03/15/04	< 100	< 1	< 5	79	< 2	< 1	15,000	30	< 10	< 1	NA	NA	230	< 3	83,000	68	NA	< 20	< 500	< 5	< 1	31,000	< 1	< 10	< 20	470

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Cleanup levels taken from Table 7-6 in the *Development of Presidio-wide Cleanup Levels for Soil, Sediment, Groundwater, and Surface Water* (EKI, 2002; Table 7-6 Revised May 2006).
3 - The cleanup levels listed for metals, do not apply to total metals.
µg/L - micrograms per liter
mg/L - milligrams per liter
NA - Not analyzed
CL suffix denotes a quality control duplicated sample was sent to the control laboratory.
Groundwater samples collected from all site monitoring wells were field filtered and analyzed for dissolved metals.
All metal results represent dissolved metals, unless indicated as "total" in the left-hand column, for total metal results.
The surface water sample collected from seep EPSP01 were analyzed for total metals during the First Quarter 2004.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-6-4
Results of TPH Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 10, 100, and 104
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Level[2]		**770**	**880**	**1,200**
EPSP01	05/13/99	< 50	81 (J25)	< 300
	02/10/99	< 50	< 50	< 300
	12/04/98	< 50	75 (J25)	< 300
	04/17/98	NA	< 50	< 300
	03/09/98	< 50	< 50	< 300
	01/08/98	< 50	**2,300** (J25)	**1,800** (J25)
	09/04/92	NA	< 50	NA
LF01GW01	02/08/99	NA	< 50	< 300
	10/29/96	< 50	< 50	< 300
	08/01/96	< 50	< 50	< 300
	05/23/96	< 50	< 50	< 300
	03/08/96	< 50	< 50	470 (J32)
	12/15/95	< 50	< 50	< 300
	09/13/95	< 50	< 50	< 1,300
	08/26/92	NA	< 50	NA
LF01GW02	02/09/99	NA	< 50	< 300
	10/29/96	< 50	< 50	< 300
	08/01/96	< 50	< 50	< 300
	05/23/96	< 50	< 50	< 300
	03/08/96	< 50	< 50	**2,200** (J32)
	12/15/95	< 50	< 50	< 300
	09/13/95	< 50	< 50	< 1300
	08/26/92	NA	< 50	NA
LF01GW03	02/08/99	NA	< 50	< 300
	10/30/96	< 50	< 50	< 300
	08/05/96	< 50	< 50	< 300
	05/22/96	< 50	< 50	< 300
	03/08/96	< 50	< 50	**3,030** (J32)
	12/15/95	< 50	< 50	< 300
	09/13/95	< 50	< 50	< 1,300
	09/10/92	< 50	NA	NA
LF01GW04	02/10/99	NA	59 (J25)	303 (J25)
	10/30/96	< 50	< 50	< 300
	08/05/96	< 50	< 50	< 300
	05/21/96	< 50	< 50	< 300
	03/11/96	< 50	< 50	586 (J32)
	12/18/95	< 50	< 50	< 300
	09/14/95	< 50	< 50	< 1,300
	09/10/92	< 50	NA	NA

Table A-6-4
Results of TPH Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 10, 100, and 104
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Level[2]		**770**	**880**	**1,200**
LF01GW05	02/11/99	NA	< 50	< 300
	10/31/96	< 50	< 50	< 300
	08/06/96	< 50	< 50	< 300
	05/22/96	< 50	< 50	< 300
	03/12/96	< 50	< 50	327 (J32)
	12/19/95	< 50	< 50	< 300
	09/15/95	< 50	< 50	< 1300
	09/10/92	< 50	NA	NA
LF01GW06	03/12/02	< 50	< 50	< 300
	05/17/01	< 50	< 50	< 300
	02/10/99	< 50	< 50	< 300
	01/06/98	< 50	< 50	< 300
	10/30/96	< 50	< 50	< 300
	08/05/96	< 50	< 50	< 300
	05/23/96	< 50	< 50	< 300
	03/11/96	< 50	< 50 (U6)	**1,990** (J32, J6)
	12/18/95	< 50	< 50	< 300
	09/14/95	< 50	< 50	< 1,300
	08/28/92	< 50	NA	NA
LF01GW07	02/08/99	NA	< 50	< 300
	10/31/96	< 50	< 50	< 300
	08/06/96	< 50	< 50	< 300
	05/22/96	< 50	< 50	< 300
	03/12/96	< 50	< 50	< 300
	12/19/95	< 50	< 50	< 300
	09/15/95	< 50	< 50	< 1,300
LF02GW01	02/09/99	NA	< 50	< 300
	10/28/96	< 50	< 50	< 300
	07/31/96	< 50	< 50	< 300
	05/21/96	< 50	< 50	< 300
	03/04/96	< 50	80 (J32)	**1,600** (J32)
	12/11/95	< 50	< 50	< 300
	09/08/95	< 50	< 50	< 1,300
	08/28/92	NA	70	NA
LF02GW02	03/11/02	< 50	< 50	< 300
DUP0311022B	03/11/02	< 50	< 50	< 300
LF02GW02CL	03/11/02	< 50	< 50	< 300
	05/17/01	< 50	< 50	< 300
	02/10/99	< 50	< 50	< 300
	01/07/98	< 50	< 50	< 300
	10/28/96	< 50	< 50	< 300

Table A-6-4
Results of TPH Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 10, 100, and 104
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Level[2]		**770**	**880**	**1,200**
LF02GW02	07/31/96	< 50	< 50	< 300
	05/22/96	< 50	< 50	< 300
	03/04/96	< 50	55 (J32)	1,200 (J32)
	12/11/95	< 50	< 50	< 300
	09/06/95	< 50	< 50	< 1,300
	09/04/92	NA	< 50	NA
LF02GW04	02/11/99	NA	< 50	< 300
	11/01/96	< 50	< 50	< 300
	08/01/96	< 50	< 50	< 300
	05/21/96	< 50	< 50	< 300
	03/06/96	< 50	< 50	310 (J32)
	12/11/95	< 50	< 50	< 300
	09/11/95	< 50	< 50	< 1,300
100GW101	12/05/03	< 50	< 50	< 300
DUP1205032A	12/05/03	< 50	< 50	< 300
100GW101CL	12/05/03	< 50	< 48	< 240
	08/21/03	< 50	< 50	NA
	06/10/03	< 50	< 50	< 300
	03/13/03	< 50	< 50	NA
	12/06/02	< 50	< 50	< 300
	10/10/02	< 27	< 20	< 360
104GW101	12/05/03	< 50	< 50	< 300
	08/21/03	< 50	< 50	NA
	06/10/03	< 50	< 50	< 300
	03/14/03	< 50	< 50	< 300
	12/06/02	< 50	< 50	< 300
	10/10/02	58	< 20	< 360

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.

2 - Cleanup levels taken from Table 7-6 in the Development of Presidio-wide Cleanup Levels for Soil, Sediment, Groundwater, and Surface Water (EKI, 2002; Table 7-6 Revised May 2006).

µg/L - micrograms per liter
NA - Not analyzed
TPH - Total petroleum hydrocarbons

CL suffix denotes a quality control duplicate sample was sent to the control laboratory.

Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which Table 11 in the main report identifies current and historical data qualifiers.

Table A-6-5
Groundwater Elevation Summary
Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, Upgradient Wells, Buildings 10, 100, and 104
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF01GW01	02/26/07	5.40	105.31	99.91	MW
	08/14/06	7.09	105.31	98.22	MW
	05/22/06	5.42	105.31	99.89	MW
	03/06/06	3.17	105.31	102.14	MW
	11/28/05	9.95	105.31	95.36	MW
	08/29/05	7.94	105.31	97.37	MW
	05/23/05	5.81	105.31	99.50	MW
	03/14/05	5.17	105.31	100.14	MW
	12/13/04	9.04	105.31	96.27	MW
	08/09/04	8.72	105.31	96.59	MW
	05/24/04	6.86	105.31	98.45	MW
	03/08/04	5.33	105.31	99.98	MW
	12/01/03	10.55	105.31	94.76	MW
	08/11/03	8.48	105.31	96.83	MW
	06/02/03	6.37	105.31	98.94	MW
	03/10/03	5.57	105.31	99.74	MW
	12/02/02	11.08	105.31	94.23	MW
	08/26/02	9.79	105.31	95.52	MW
	05/28/02	6.76	105.31	98.55	MW
	03/04/02	5.49	105.31	99.82	MW
	11/26/01	10.30	105.31	95.01	MW
	08/27/01	10.12	105.31	95.19	MW
	05/08/01	3.88	105.31	101.43	MW
LF01GW02	02/26/07	22.90	98.98	76.08	MW
	08/14/06	20.55	98.98	78.43	MW
	05/22/06	22.12	98.98	76.86	MW
	03/06/06	26.00	98.98	72.98	MW
	11/28/05	27.37	98.98	71.61	MW
	08/29/05	26.75	98.98	72.23	MW
	05/23/05	28.81	98.98	70.17	MW
	03/14/05	31.38	98.98	67.60	MW
	12/13/04	32.75	98.98	66.23	MW
	08/09/04	31.45	98.98	67.53	MW
	05/24/04	31.04	98.98	67.94	MW
	03/08/04	31.83	98.98	67.15	MW
	12/01/03	32.04	98.98	66.94	MW
	08/11/03	30.74	98.98	68.24	MW
	06/02/03	30.03	98.98	68.95	MW
	03/10/03	30.53	98.98	68.45	MW
	12/02/02	31.15	98.98	67.83	MW
	08/26/02	29.78	98.98	69.20	MW
	05/28/02	29.34	98.98	69.64	MW
	03/04/02	30.68	98.98	68.30	MW
	11/26/01	31.73	98.98	67.25	MW
	08/27/01	30.28	98.98	68.70	MW
	05/08/01	29.32	98.98	69.66	MW

Table A-6-5
Groundwater Elevation Summary
Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, Upgradient Wells, Buildings 10, 100, and 104
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF01GW03	02/26/07	47.78	151.82	104.04	MW
	08/14/06	44.76	151.82	107.06	MW
	05/22/06	44.80	151.82	107.02	MW
	03/06/06	48.20	151.82	103.62	MW
	11/28/05	50.62	151.82	101.20	MW
	08/29/05	49.42	151.82	102.40	MW
	05/23/05	49.35	151.82	102.47	MW
	03/14/05	51.36	151.82	100.46	MW
	12/13/04	54.17	151.82	97.65	MW
	08/09/04	52.83	151.82	98.99	MW
	05/24/04	52.05	151.82	99.77	MW
	03/08/04	52.37	151.82	99.45	MW
	12/01/03	54.20	151.82	97.62	MW
	08/11/03	52.6	151.82	99.22	MW
	06/02/03	51.69	151.82	100.13	MW
	03/10/03	51.93	151.82	99.89	MW
	12/02/02	53.61	151.82	98.21	MW
	08/26/02	51.99	151.82	99.83	MW
	05/28/02	50.76	151.82	101.06	MW
	03/04/02	51.32	151.82	100.50	MW
	11/26/01	54.20	151.82	97.62	MW
	08/27/01	53.21	151.82	98.61	MW
	05/08/01	52.08	151.82	99.74	MW
LF01GW04	02/26/07	54.10	159.39	105.29	MW
	08/14/06	50.65	159.39	108.74	MW
	05/22/06	51.41	159.39	107.98	MW
	03/06/06	55.18	159.39	104.21	MW
	11/28/05	56.02	159.39	103.37	MW
	08/29/05	55.23	159.39	104.16	MW
	05/23/05	56.32	159.39	103.07	MW
	03/14/05	59.52	159.39	99.87	MW
	12/13/04	60.87	159.39	98.52	MW
	08/09/04	59.69	159.39	99.70	MW
	05/24/04	59.43	159.39	99.96	MW
	03/08/04	60.46	159.39	98.93	MW
	12/01/03	60.47	159.39	98.92	MW
	08/11/03	59.47	159.39	99.92	MW
	06/02/03	58.78	159.39	100.61	MW
	03/10/03	59.40	159.39	99.99	MW
	12/02/02	59.50	159.39	99.89	MW
	08/26/02	58.26	159.39	101.13	MW
	05/28/02	57.87	159.39	101.52	MW
	03/04/02	59.50	159.39	99.89	MW
	11/26/01	60.46	159.39	98.93	MW
	08/27/01	59.48	159.39	99.91	MW
	05/08/01	59.03	159.39	100.36	MW

Table A-6-5
Groundwater Elevation Summary
Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, Upgradient Wells, Buildings 10, 100, and 104
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF01GW05	02/26/07	8.15	83.72	75.57	MW
	08/14/06	7.83	83.72	75.89	MW
	05/22/06	12.85	83.72	70.87	MW
	03/06/06	8.82	83.72	74.90	MW
	11/28/05	13.54	83.72	70.18	MW
	08/29/05	11.43	83.72	72.29	MW
	05/23/05	10.96	83.72	72.76	MW
	03/14/05	11.64	83.72	72.08	MW
	12/13/04	17.46	83.72	66.26	MW
	08/09/04	15.20	83.72	68.52	MW
	05/24/04	12.38	83.72	71.34	MW
	03/08/04	11.42	83.72	72.30	MW
	12/01/03	17.08	83.72	66.64	MW
	08/11/03	13.39	83.72	70.33	MW
	06/02/03	11.17	83.72	72.55	MW
	03/10/03	10.75	83.72	72.97	MW
	12/02/02	16.67	83.72	67.05	MW
	08/26/02	13.72	83.72	70.00	MW
	05/28/02	11.22	83.72	72.50	MW
	03/04/02	11.25	83.72	72.47	MW
	11/26/01	18.35	83.72	65.37	MW
	08/27/01	15.30	83.72	68.42	MW
	05/08/01	11.23	83.72	72.49	MW
LF01GW06	02/26/07	62.54	145.23	82.69	MW
	08/14/06	59.65	145.23	85.58	MW
	05/22/06	60.98	145.23	84.25	MW
	03/06/06	50.80	145.23	94.43	MW
	11/28/05	66.31	145.23	78.92	MW
	08/29/05	65.43	145.23	79.80	MW
	05/23/05	67.50	145.23	77.73	MW
	03/14/05	70.34	145.23	74.89	MW
	12/13/04	71.61	145.23	73.62	MW
	08/09/04	70.20	145.23	75.03	MW
	05/24/04	69.95	145.23	75.28	MW
	03/08/04	70.90	145.23	74.33	MW
	12/01/03	70.87	145.23	74.36	MW
	08/11/03	69.76	145.23	75.47	MW
	06/02/03	69.11	145.23	76.12	MW
	03/10/03	69.60	145.23	75.63	MW
	12/02/02	69.93	145.23	75.30	MW
	08/26/02	68.69	145.23	76.54	MW
	05/28/02	68.36	145.23	76.87	MW
	03/04/02	69.87	145.23	75.36	MW
	11/26/01	70.69	145.23	74.54	MW
	08/27/01	69.51	145.23	75.72	MW
	05/08/01	68.88	145.23	76.35	MW

Table A-6-5
Groundwater Elevation Summary
Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, Upgradient Wells, Buildings 10, 100, and 104
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF01GW07	02/26/07	55.23	162.00	106.77	MW
	08/14/06	52.57	162.00	109.43	MW
	05/22/06	52.94	162.00	109.06	MW
	03/06/06	55.74	162.00	106.26	MW
	11/28/05	57.10	162.00	104.90	MW
	08/29/05	56.45	162.00	105.55	MW
	05/23/05	56.68	162.00	105.32	MW
	03/14/05	58.38	162.00	103.62	MW
	12/13/04	60.02	162.00	101.98	MW
	08/09/04	59.13	162.00	102.87	MW
	05/24/04	58.66	162.00	103.34	MW
	03/08/04	59.18	162.00	102.82	MW
	12/01/03	59.88	162.00	102.12	MW
	08/11/03	58.96	162.00	103.04	MW
	06/02/03	58.33	162.00	103.67	MW
	03/10/03	58.68	162.00	103.32	MW
	12/02/02	59.39	162.00	102.61	MW
	08/26/02	58.40	162.00	103.60	MW
	05/28/02	57.79	162.00	104.21	MW
	03/04/02	58.42	162.00	103.58	MW
	11/26/01	59.96	162.00	102.04	MW
	08/27/01	59.26	162.00	102.74	MW
	05/08/01	58.92	162.00	103.08	MW
EPSP01	02/26/07	flowing	--	--	Surface
	08/14/06	flowing	--	--	Surface
	05/22/06	flowing	--	--	Surface
	03/06/06	flowing	--	--	Surface
	11/28/05	flowing	--	--	Surface
	08/29/05	flowing	--	--	Surface
	05/23/05	flowing	--	--	Surface
	03/14/05	flowing	--	--	Surface
	12/13/04	flowing	--	--	Surface
	08/09/04	flowing	--	--	Surface
	05/24/04	flowing	--	--	Surface
	03/08/04	flowing	--	--	Surface
	12/01/03	flowing	--	--	Surface
	08/11/03	flowing	--	--	Surface
	06/02/03	flowing	--	--	Surface
	03/10/03	--	--	--	Surface
	12/02/02	--	--	--	Surface
	08/26/02	--	--	--	Surface
	05/28/02	--	--	--	Surface
	03/04/02	--	--	--	Surface
	11/26/01	--	--	--	Surface
	08/27/01	--	--	--	Surface
	05/08/01	--	--	--	Surface

Table A-6-5
Groundwater Elevation Summary
Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, Upgradient Wells, Buildings 10, 100, and 104
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF02GW01	02/26/07	0.30	98.57	98.27	MW
	08/14/06	0.80	98.57	97.77	MW
	05/22/06	0.78	98.57	97.79	MW
	03/06/06	2.80	98.57	95.77	MW
	11/28/05	3.25	98.57	95.32	MW
	08/29/05	3.80	98.57	94.77	MW
	05/23/05	3.28	98.57	95.29	MW
	03/14/05	2.35	98.57	96.22	MW
	12/13/04	2.48	98.57	96.09	MW
	08/09/04	2.63	98.57	95.94	MW
	05/24/04	2.25	98.57	96.32	MW
	03/08/04	2.54	98.57	96.03	MW
	12/01/03	2.93	98.57	95.64	MW
	08/11/03	2.41	98.57	96.16	MW
	06/02/03	2.04	98.57	96.53	MW
	03/10/03	0.94	98.57	97.63	MW
	12/02/02	3.46	98.57	95.11	MW
	08/26/02	3.05	98.57	95.52	MW
	05/28/02	2.46	98.57	96.11	MW
	03/04/02	1.91	98.57	96.66	MW
	11/26/01	5.67	98.57	92.90	MW
	08/27/01	4.14	98.57	94.43	MW
	05/08/01	2.15	98.57	96.42	MW
LF02GW02	02/26/07	2.08	101.99	99.91	MW
	08/14/06	3.15	101.99	98.84	MW
	05/22/06	1.45	101.99	100.54	MW
	03/06/06	1.31	101.99	100.68	MW
	11/28/05	3.65	101.99	98.34	MW
	08/29/05	3.65	101.99	98.34	MW
	05/23/05	1.11	101.99	100.88	MW
	03/14/05	1.11	101.99	100.88	MW
	12/13/04	3.72	101.99	98.27	MW
	08/09/04	4.41	101.99	97.58	MW
	05/24/04	1.94	101.99	100.05	MW
	03/08/04	1.41	101.99	100.58	MW
	12/01/03	4.70	101.99	97.29	MW
	08/11/03	4.48	101.99	97.51	MW
	06/02/03	1.98	101.99	100.01	MW
	03/10/03	1.34	101.99	100.65	MW
	12/02/02	4.66	101.99	97.33	MW
	08/26/02	4.34	101.99	97.65	MW
	05/28/02	2.12	101.99	99.87	MW
	03/04/02	1.40	101.99	100.59	MW
	11/26/01	4.81	101.99	97.18	MW
	08/27/01	5.33	101.99	96.66	MW
	05/08/01	2.03	101.99	99.96	MW

Table A-6-5
Groundwater Elevation Summary
Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, Upgradient Wells, Buildings 10, 100, and 104
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF02GW04	02/26/07	17.76	172.60	154.84	MW
	08/14/06	19.24	172.60	153.36	MW
	05/22/06	15.10	172.60	157.50	MW
	03/06/06	14.78	172.60	157.82	MW
	11/28/05	20.82	172.60	151.78	MW
	08/29/05	19.68	172.60	152.92	MW
	05/23/05	17.69	172.60	154.91	MW
	03/14/05	14.93	172.60	157.67	MW
	12/13/04	20.38	172.60	152.22	MW
	08/09/04	20.96	172.60	151.64	MW
	05/24/04	19.90	172.60	152.70	MW
	03/08/04	17.08	172.60	155.52	MW
	12/01/03	21.49	172.60	151.11	MW
	08/11/03	20.89	172.60	151.71	MW
	06/02/03	19.38	172.60	153.22	MW
	03/10/03	18.30	172.60	154.30	MW
	12/02/02	21.51	172.60	151.09	MW
	08/26/02	20.89	172.60	151.71	MW
	05/28/02	19.27	172.60	153.33	MW
	03/04/02	17.65	172.60	154.95	MW
	11/26/01	21.44	172.60	151.16	MW
	08/27/01	21.72	172.60	150.88	MW
	05/08/01	19.90	172.60	152.70	MW
TH-1	08/14/06	15.48	80.76	65.28	MW
	05/22/06	14.55	80.76	66.21	MW
	03/06/06	15.47	80.76	65.29	MW
	11/28/05	20.11	80.76	60.65	MW
	08/29/05	19.11	80.76	61.65	MW
	05/23/05	18.51	80.76	62.25	MW
	03/14/05	18.62	80.76	62.14	MW
	12/13/04	23.12	80.76	57.64	MW
	08/09/04	23.58	80.76	57.18	MW
	05/24/04	23.20	80.76	57.56	MW
	03/08/04	21.75	80.76	59.01	MW
	12/01/03	25.20	80.76	55.56	MW
	08/11/03	23.67	80.76	57.09	MW
	06/02/03	22.60	80.76	58.16	MW
	03/10/03	22.24	80.76	58.52	MW
	12/02/02	24.52	80.76	56.24	MW
	08/26/02	23.52	80.76	57.24	MW
	05/28/02	22.47	80.76	58.29	MW
	03/04/02	21.54	80.76	59.22	MW
	11/26/01	24.59	80.76	56.17	MW
	08/27/01	23.69	80.76	57.07	MW
	05/08/01	21.98	80.76	58.78	MW

Table A-6-5
Groundwater Elevation Summary
Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, Upgradient Wells, Buildings 10, 100, and 104
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
TH-2	08/14/06	52.12	111.26	59.14	MW
	05/22/06	52.44	111.26	58.82	MW
	03/06/06	55.06	111.26	56.20	MW
	11/28/05	57.03	111.26	54.23	MW
	08/29/05	56.60	111.26	54.66	MW
	05/23/05	56.91	111.26	54.35	MW
	03/14/05	58.40	111.26	52.86	MW
	12/13/04	60.75	111.26	50.51	MW
	08/09/04	60.00	111.26	51.26	MW
	05/24/04	59.56	111.26	51.70	MW
	03/08/04	59.56	111.26	51.70	MW
	12/01/03	60.71	111.26	50.55	MW
	08/11/03	59.62	111.26	51.64	MW
	06/02/03	58.91	111.26	52.35	MW
	03/10/03	58.91	111.26	52.35	MW
	12/02/02	50.90	111.26	60.36	MW
	08/26/02	59.06	111.26	52.20	MW
	05/28/02	58.49	111.26	52.77	MW
	03/04/02	58.70	111.26	52.56	MW
	11/26/01	60.14	111.26	51.12	MW
	08/27/01	59.10	111.26	52.16	MW
	05/08/01	58.06	111.26	53.20	MW
TH-3	08/14/06	7.14	64.68	57.54	MW
	05/22/06	7.30	64.68	57.38	MW
	03/06/06	9.67	64.68	55.01	MW
	11/28/05	11.82	64.68	52.86	MW
	08/29/05	11.36	64.68	53.32	MW
	05/23/05	11.57	64.68	53.11	MW
	03/14/05	13.11	64.68	51.57	MW
	12/13/04	15.30	64.68	49.38	MW
	08/09/04	14.73	64.68	49.95	MW
	05/24/04	14.00	64.68	50.68	MW
	03/08/04	13.93	64.68	50.75	MW
	12/01/03	15.19	64.68	49.49	MW
	08/11/03	14.1	64.68	50.58	MW
	06/02/03	13.44	64.68	51.24	MW
	03/10/03	13.45	64.68	51.23	MW
	12/02/02	14.31	64.68	50.37	MW
	08/26/02	13.67	64.68	51.01	MW
	05/28/02	13.06	64.68	51.62	MW
	03/04/02	13.25	64.68	51.43	MW
	11/26/01	14.73	64.68	49.95	MW
	08/27/01	13.69	64.68	50.99	MW
	05/08/01	12.45	64.68	52.23	MW

Table A-6-5
Groundwater Elevation Summary
Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, Upgradient Wells, Buildings 10, 100, and 104
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
TH-4	08/14/06	0.48	44.59	44.11	MW
	05/22/06	0.15	44.59	44.44	MW
	03/06/06	0.56	44.59	44.03	MW
	11/28/05	2.31	44.59	42.28	MW
	08/29/05	2.09	44.59	42.50	MW
	05/23/05	1.90	44.59	42.69	MW
	03/14/05	2.30	44.59	42.29	MW
	12/13/04	3.88	44.59	40.71	MW
	08/09/04	4.11	44.59	40.48	MW
	05/24/04	3.69	44.59	40.90	MW
	03/08/04	3.02	44.59	41.57	MW
	12/01/03	4.21	44.59	40.38	MW
	08/11/03	3.95	44.59	40.64	MW
	06/02/03	3.32	44.59	41.27	MW
	03/10/03	2.92	44.59	41.67	MW
	12/02/02	3.72	44.59	40.87	MW
	08/26/02	3.32	44.59	41.27	MW
	05/28/02	2.82	44.59	41.77	MW
	03/04/02	2.43	44.59	42.16	MW
	11/26/01	3.60	44.59	40.99	MW
	08/27/01	3.50	44.59	41.09	MW
	05/08/01	2.69	44.59	41.90	MW
UBR01GW01	08/14/06	NM	164.71	NM	MW
	05/22/06	NM	164.71	NM	MW
	03/06/06	NM	164.71	NM	MW
	11/28/05	NM	164.71	NM	MW
	08/29/05	22.83	164.71	141.88	MW
	05/23/05	18.34	164.71	146.37	MW
	03/14/05	13.67	164.71	151.04	MW
	12/13/04	28.36	164.71	136.35	MW
	08/09/04	24.38	164.71	140.33	MW
	05/24/04	21.17	164.71	143.54	MW
	03/08/04	14.33	164.71	150.38	MW
	12/01/03	27.66	164.71	137.05	MW
	08/11/03	23.86	164.71	140.85	MW
	06/02/03	20.87	164.71	143.84	MW
	03/10/03	20.12	164.71	144.59	MW
	12/02/02	28.65	164.71	136.06	MW
	08/26/02	25.66	164.71	139.05	MW
	05/28/02	22.21	164.71	142.50	MW
	03/04/02	20.55	164.71	144.16	MW
	11/26/01	34.02	164.71	130.69	MW
	08/27/01	31.36	164.71	133.35	MW
	05/08/01	27.32	164.71	137.39	MW

Table A-6-5
Groundwater Elevation Summary
Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, Upgradient Wells, Buildings 10, 100, and 104
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
UBR02GW01	08/14/06	8.71	253.39	244.68	MW
	05/22/06	6.44	253.39	246.95	MW
	03/06/06	8.80	253.39	244.59	MW
	11/28/05	13.06	253.39	240.33	MW
	08/29/05	10.34	253.39	243.05	MW
	05/23/05	8.52	253.39	244.87	MW
	03/14/05	10.13	253.39	243.26	MW
	12/13/04	15.06	253.39	238.33	MW
	08/09/04	14.09	253.39	239.30	MW
	05/24/04	11.74	253.39	241.65	MW
	03/08/04	11.20	253.39	242.19	MW
	12/01/03	15.55	253.39	237.84	MW
	08/11/03	13.92	253.39	239.47	MW
	06/02/03	11.21	253.39	242.18	MW
	03/10/03	12.04	253.39	241.35	MW
	12/02/02	15.60	253.39	237.79	MW
	08/26/02	13.92	253.39	239.47	MW
	05/28/02	10.62	253.39	242.77	MW
	03/04/02	11.47	253.39	241.92	MW
	11/26/01	16.40	253.39	236.99	MW
	08/27/01	15.77	253.39	237.62	MW
	05/08/01	12.91	253.39	240.48	MW
UBR02GW02	08/14/06	8.91	253.56	244.65	MW
	05/22/06	6.61	253.56	246.95	MW
	03/06/06	9.00	253.56	244.56	MW
	11/28/05	13.30	253.56	240.26	MW
	08/29/05	10.53	253.56	243.03	MW
	05/23/05	8.73	253.56	244.83	MW
	03/14/05	10.33	253.56	243.23	MW
	12/13/04	15.27	253.56	238.29	MW
	08/09/04	14.38	253.56	239.18	MW
	05/24/04	11.95	253.56	241.61	MW
	03/08/04	11.41	253.56	242.15	MW
	12/01/03	15.75	253.56	237.81	MW
	08/11/03	14.1	253.56	239.46	MW
	06/02/03	11.39	253.56	242.17	MW
	03/10/03	12.22	253.56	241.34	MW
	12/02/02	15.77	253.56	237.79	MW
	08/26/02	14.09	253.56	239.47	MW
	05/28/02	10.75	253.56	242.81	MW
	03/04/02	11.65	253.56	241.91	MW
	11/26/01	16.57	253.56	236.99	MW
	08/27/01	15.94	253.56	237.62	MW
	05/08/01	13.10	253.56	240.46	MW

Table A-6-5
Groundwater Elevation Summary
Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, Upgradient Wells, Buildings 10, 100, and 104
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
UBR03GW01	08/14/06	33.45	171.22	137.77	MW
	05/22/06	30.25	171.22	140.97	MW
	03/06/06	33.51	171.22	137.71	MW
	11/28/05	38.37	171.22	132.85	MW
	08/29/05	35.54	171.22	135.68	MW
	05/23/05	35.52	171.22	135.70	MW
	03/14/05	41.09	171.22	130.13	MW
	12/13/04	45.14	171.22	126.08	MW
	08/09/04	43.58	171.22	127.64	MW
	05/24/04	44.16	171.22	127.06	MW
	03/08/04	46.21	171.22	125.01	MW
	12/01/03	46.92	171.22	124.30	MW
	08/11/03	46.52	171.22	124.70	MW
	06/02/03	46.33	171.22	124.89	MW
	03/10/03	46.92	171.22	124.30	MW
	12/02/02	47.22	171.22	124.00	MW
	08/26/02	46.44	171.22	124.78	MW
	05/28/02	46.32	171.22	124.90	MW
	03/04/02	46.93	171.22	124.29	MW
	11/26/01	47.64	171.22	123.58	MW
	08/27/01	46.83	171.22	124.39	MW
	05/08/01	46.45	171.22	124.77	MW
UBR03GW02	08/14/06	15.13	170.96	155.83	MW
	05/22/06	12.45	170.96	158.51	MW
	03/06/06	15.28	170.96	155.68	MW
	11/28/05	20.11	170.96	150.85	MW
	08/29/05	17.82	170.96	153.14	MW
	05/23/05	16.78	170.96	154.18	MW
	03/14/05	17.89	170.96	153.07	MW
	12/13/04	21.88	170.96	149.08	MW
	08/09/04	21.87	170.96	149.09	MW
	05/24/04	20.06	170.96	150.90	MW
	03/08/04	19.14	170.96	151.82	MW
	12/01/03	24.65	170.96	146.31	MW
	08/11/03	21.98	170.96	148.98	MW
	06/02/03	20.47	170.96	150.49	MW
	03/10/03	20.77	170.96	150.19	MW
	12/02/02	27.29	170.96	143.67	MW
	08/26/02	24.47	170.96	146.49	MW
	05/28/02	21.59	170.96	149.37	MW
	03/04/02	20.41	170.96	150.55	MW
	11/26/01	26.37	170.96	144.59	MW
	08/27/01	23.62	170.96	147.34	MW
	05/08/01	20.90	170.96	150.06	MW

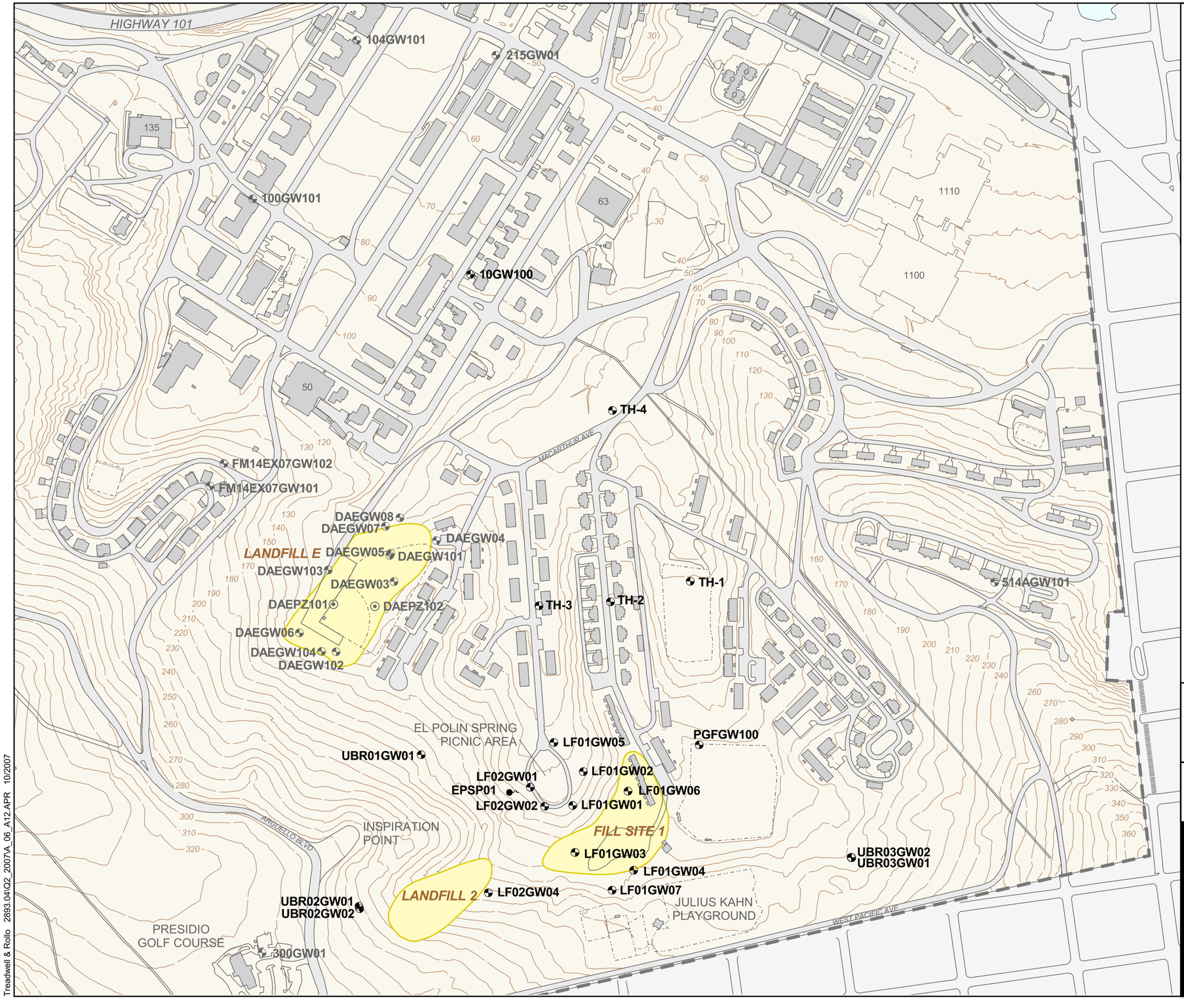
Table A-6-5
Groundwater Elevation Summary
Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, Upgradient Wells, Buildings 10, 100, and 104
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
300GW01	03/06/06	NM	304.21	NM	MW
	11/28/05	29.48	304.21	274.73	MW
	03/14/05	24.99	304.21	279.22	MW
	12/13/04	32.03	304.21	272.18	MW
	08/09/04	28.56	304.21	275.65	MW
	05/24/04	26.92	304.21	277.29	MW
	03/08/04	27.04	304.21	277.17	MW
	12/01/03	32.34	304.21	271.87	MW
	08/11/03	29.77	304.21	274.44	MW
	06/02/03	28.80	304.21	275.41	MW
	03/10/03	28.41	304.21	275.80	MW
	12/02/02	32.03	304.21	272.18	MW
	08/26/02	29.73	304.21	274.48	MW
	05/28/02	27.53	304.21	276.68	MW
	03/04/02	26.78	304.21	277.43	MW
	11/26/01	33.44	304.21	270.77	MW
10GW100	08/14/06	42.79	76.88	34.09	MW
	05/22/06	41.96	76.88	34.92	MW
	03/06/06	43.49	76.88	33.39	MW
	11/28/05	44.45	76.88	32.43	MW
	08/29/05	43.92	76.88	32.96	MW
	05/23/05	43.27	76.88	33.61	MW
	03/14/05	44.17	76.88	32.71	MW
	12/13/04	45.50	76.88	31.38	MW
	08/09/04	45.81	76.88	31.07	MW
	05/24/04	45.44	76.88	31.44	MW
	03/08/04	45.30	76.88	31.58	MW
	12/01/03	46.21	76.88	30.67	MW
	08/11/03	45.85	76.88	31.03	MW
	06/02/03	45.40	76.88	31.48	MW
	03/10/03	44.62	76.88	32.26	MW
	12/02/02	45.00	76.88	31.88	MW
	08/26/02	45.24	76.88	31.64	MW
	05/28/02	44.60	76.88	32.28	MW
	03/04/02	43.87	76.88	33.01	MW
100GW101	05/24/04	NM	84.45	NM	MW
	03/08/04	58.17	84.45	26.28	MW
	12/01/03	58.93	84.45	25.52	MW
	08/11/03	58.57	84.45	25.88	MW
	06/02/03	58.08	84.45	26.37	MW
	03/10/03	57.53	84.45	26.92	MW
104GW101	05/24/04	NM	53.88	NM	MW
	03/08/04	35.41	53.88	18.47	MW
	12/01/03	36.65	53.88	17.23	MW
	08/11/03	36.33	53.88	17.55	MW
	06/02/03	35.97	53.88	17.91	MW
	03/10/03	35.39	53.88	18.49	MW

Table A-6-5
Groundwater Elevation Summary
Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, Upgradient Wells, Buildings 10, 100, and 104
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
PGFGW100	08/14/06	34.50	133.71	99.21	MW
	05/22/06	33.89	133.71	99.82	MW
	03/06/06	37.23	133.71	96.48	MW
	11/28/05	39.28	133.71	94.43	MW
	08/29/05	37.96	133.71	95.75	MW
	05/23/05	37.41	133.71	96.30	MW
	03/14/05	38.82	133.71	94.89	MW
	12/13/04	41.89	133.71	91.82	MW
	08/09/04	40.61	133.71	93.10	MW
	05/24/04	39.60	133.71	94.11	MW
	03/08/04	40.10	133.71	93.61	MW
	12/01/03	41.64	133.71	92.07	MW
	08/11/03	40.64	133.71	93.07	MW
	06/02/03	39.81	133.71	93.90	MW
	03/10/03	39.57	133.71	94.14	MW
	12/02/02	41.22	133.71	92.49	MW
	08/26/02	40.10	133.71	93.61	MW
	05/28/02	39.13	133.71	94.58	MW
	03/04/02	39.06	133.71	94.65	MW

Notes
1 - All depth to water measurements are an average of three measurements recorded in the field.
MW- Monitoring well
feet PLLW - feet above Presidio lower low water vertical datum
NM - Not measured



N

425 0 425 Feet

LEGEND

- **LF01GW05** Groundwater Monitoring Well
- **DAEGW03** Adjacent Groundwater Monitoring Well
- **DAEPZ101** Adjacent Piezometer
- **EPSP01** Approximate Surface Water Sample Location
- Presidio Boundary
- Recreation Area
- Topographic Contour (Contour Interval : 10 ft)
- Approximate Lateral Extent of Landfill
- 1100 Former Building and Number
- 50 Building and Number

Notes:
Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datum: (topography) North American Vertical Datum, NAVD88

FILL SITE 1, LANDFILL 2, EL POLIN SPRING, TENNESSEE HOLLOW, UPGRADIENT, BUILDING 10 WELLS SITE PLAN

Treadwell&Rollo

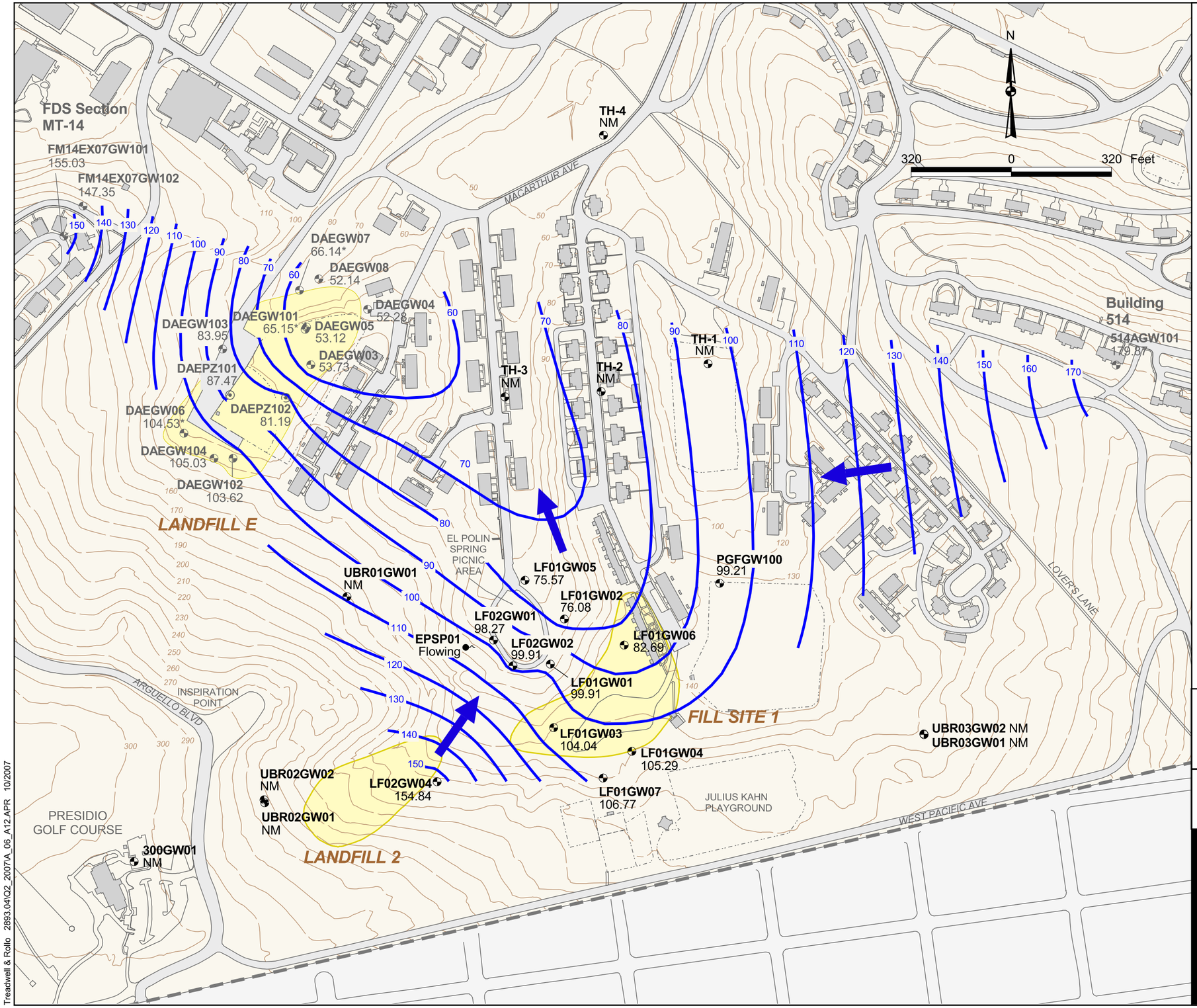
THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315

October 2007

FIGURE A-6-1

Treadwell & Rollo 2893.04\Q2_2007\A_06_A12.APR 10/2007



LEGEND

- **LF01GW05** 75.57 — Groundwater Monitoring Well, February 2007 Groundwater Elevation
- **DAEGW03** 53.73 — Adjacent Groundwater Monitoring Well, February 2007 Groundwater Elevation
- **DAEPZ101** 87.47 — Adjacent Piezometer, February 2007 Groundwater Elevation
- **EPSP01** — Approximate Surface Water Sample Location
- * — Monitoring well not used for contouring.
- NM — Not Measured
- Approximate Direction of Groundwater Flow
- Groundwater Contour (Contour Interval: 10 ft)
- Presidio Boundary
- Recreation Area
- Topographic Contour (Contour Interval: 10 ft)
- Approximate Lateral Extent of Landfill
- Building

Notes:
Groundwater elevation data collected on 26 February 2007.

300GW01 was approved for removal from the groundwater monitoring program prior to the First Quarter 2006.

Landfill E wells DAEGW06 and DAEGW07 were not contoured, due to semi-confined and perched conditions, respectively. Whereas, well DAEGW101 was not contoured because it is screened in a deeper interval.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

FILL SITE 1, LANDFILL 2, EL POLIN SPRING, TENNESSEE HOLLOW, AND UPGRADIENT WELLS 26 FEBRUARY 2007 GROUNDWATER ELEVATION MAP

Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
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October 2007

FIGURE A-6-2

Treadwell & Rollo 2893.04\Q2_2007\A_06_A12.APR 10/2007

First Quarter 2007

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: LF01 | Well No.: EPSP01 - Surface/seep

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: P. Cornish | Date: 2/28/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC):

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Surface/seep

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate

gals ACTUAL PURGE VOLUME

DO YSI 55A

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron L ultrameter / Hach 2100

Time /	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1050 /	-	6.55	12.2	7.60	774.3 µs	-	17	
/				Lincup				
/								
/								
/								
/								
/								
/								
/								
/								
/								
/								
/								
/								
/								

Comments | Purge water storage/disposal [ ] Drummed onsite [ ] Other -

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 2/28/07 / 1055

Purging Equipment: Pump - Type | Bailer - Type: DSP | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
EPSP01	1x500ml Poly NP	CET	2183	
	2x500ml Poly HNO_3			
	1x500ml Poly NaOH			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: LF01 | Well No.: LF01GW01

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P.Cornish | Sampled by: P.Cornish | Date: 2/28/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 18.32

Depth to Water (WL, ft. below TOC): 5.20

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp.

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: 0.5 gpm

4.5 gals ACTUAL PURGE VOLUME

DO YSI 550A

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron L Ultrameter / Hach 2100

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	DTW	Comments
1258	/	initial	6.60	12.0	pre. 1.25	766.0 µs	-	2	-	
1301	/	1.5	6.61	12.4	-	744.5	-	2	5.90	
1304	/	3	6.62	12.5	-	742.6	-	4	6.29	
1307	/	4.5	6.62	11.8	-	744.5	-	4	6.72	
	/				post 0.90					
	/									
	/									
	/									
	/									
	/									
	/									
	/									
	/									
	/									
	/									

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other onsite Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 2/28/07 / 1315

Purging Equipment: Pump - Type: Bailer - Type: Disp. Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF01GW01	1x500ml Poly NP	C&T	2153	
	1x500ml Poly HNO_3			
	1x500ml Poly NaOH			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: LF01 | Well No.: LF01GW02

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P.Cornish | Sampled by: P.Cornish | Date: 2/28/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 45.52

Depth to Water (WL, ft. below TOC): 23.20

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: 0.5gpm

4.5 gals ACTUAL PURGE VOLUME

DO YSI550A

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron L 4 Hermeter/Hach 2100

Time	/	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	(ft.) DTW!	Comments
1330	/	Initial	13.2	6.61	pre. 3.98	807.9 µS	—	3	—	
1333	/	1.5	13.7	6.54	—	806.9	—	3	23.82	
1336	/	3	13.6	6.51	—	808.1	—	7	24.15	
1339	/	4.5	12.3	6.86	—	811.2	—	10	24.50	
	/				post 3.42					
	/									
	/									
	/									
	/									
	/									
	/									
	/									
	/									
	/									
	/									

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other onsite Tank

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: 2/28/07 / 1350

Purging Equipment: Pump - Type: Bailer - Type: Disp Other:

Sample Filtered: (Yes) / No Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF01GW02	1x500ml Poly NP	CET	2183	
	1x500ml Poly HNO3			
	1x500ml Poly NaOH			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell & Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: LFOI | Well No.: LFOIGW03

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: P. Cornish | Date: 2/28/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 65.25

Depth to Water (WL, ft. below TOC): 47.90

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp.

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: 0.5 gpm

4.5 gals ACTUAL PURGE VOLUME

DO YSI 550A

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron L 4 Trameter / Hach 2100

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	DTW:	Comments
1522	/	initial	7.03	13.6	pre 1.42	948.9 µS	-	5	-	
1525	/	1.5	7.07	13.1	-	954.5	-	6	48.20	
1529	/	3	7.08	14.0	-	961.0	-	10	49.15	
1531	/	4.5	6.95	12.9	-	971.5	-	8	50.10	
	/				post 0.94					
	/									
	/									
	/									
	/									
	/									
	/									
	/									
	/									
	/									
	/									

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other Onsite Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 2/28/07 1540

Purging Equipment: Pump - Type: Bailer - Type: Disp Other:

Sample Filtered: (Yes) / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LFOIGW03	1x500ml Poly NP	CET	2163	
	1x500ml Poly HNO3			
	1x500ml Poly NaOH			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area LF01 | Well No. LF01GW04

Project Number 2893 | Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By L. Cornish | Sampled by D. Cornish | Date 2/28/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC) :

Depth to Water (WL, ft. below TOC) : 55.29

Depth to free phase (FP, ft. below TOC) :

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type Disp.

[ ] Normal [ ] Pump \ Type

[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate 0.5 gpm

4.5 gals ACTUAL PURGE VOLUME

DO YSI 550A

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type Myron L / Ultrameter Hach 2100P

Time	/	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	FC DTW:	Comments
910	/	initial	7.05	12.6	pre 3.61	2078 µS	-	7		
913	/	1.5	6.92	13.7	-	959.1	-	8		56.60
916	/	3	9.92	13.6	-	878.6	-	8		57.29
919	/	4.5	6.95	13.4	-	826.4	-	8		58.40
	/				post 4.30					
	/									
	/					DTW: 58.42 Post Purge				
	/									
	/									
	/									
	/									
	/									
	/									
	/									
	/									

Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other onsite Tank

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled 2/28/07 / 925

Purging Equipment: Pump - Type | Bailer - Type Disp | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF01GW04	1 x 500ml Poly NP	CPT	2183	
	1 x 500ml Poly HNO3			
	1 x 500ml Poly NaOH			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.
LF01GW04	DUP022807 1A

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell & Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: LF01 | Well No.: LF01GW05

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: R.Cornish | Sampled by: R.cornish | Date: 2/28/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 36.96

Depth to Water (WL, ft. below TOC): 8.22

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp.
[ ] Normal [ ] Pump \ Type:
[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):
[ ] Near Bottom Depth (ft):
[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: 0.5 gpm

4.5 gals ACTUAL PURGE VOLUME

DO YSI 550A

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron L 4 Parameter/Hach 2100

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	(ft.) DTW	Comments
1406	/	initial	6.57	12.2	post 0.91	720.1 µs	-	3	-	
1411	/	1.5	6.57	12.9	-	714.3	-	11	10.72	
1414	/	3	6.33	12.9	-	713.1	-	13	12.31	
1417	/	4.5	6.42	12.6	-	709.8	-	12	14.35	
	/				post 0.54					
	/									
	/									
	/									
	/									
	/									
	/									
	/									
	/									
	/									
	/									

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 2/28/07 / 1422

Purging Equipment: Pump - Type: | Bailer - Type: Disp. | Other:

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF01GW05	1x500ml Poly NP	CAT	2183	
	1x500ml Poly HNO3			
	1x500ml Poly NaOH			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: LF01 | Well No.: LF01GW06
Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: P.cornish | Sampled by: P.cornish | Date: 2/28/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 86.52
Depth to Water (WL, ft. below TOC): 62.96
Depth to free phase (FP, ft. below TOC):

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp
[ ] Normal [ ] Pump \ Type:
[ ] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):
[ ] Near Bottom Depth (ft):
[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length ___ X Water Volume/ft ___ X No. Vols ___ = ___ gals CALCULATED PURGE VOLUME

Total Purge Time:
Recharge Rate:
Purge Rate: 0.5gpm

4.5 gals ACTUAL PURGE VOLUME

DO YSI 550A

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron L Ultrameter / Hach 2100

Time	/ Liters or ~~Gallons~~	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	(ft.) DTW: Comments
1004	/			pre 5.01				
1010	/ Initial	7.17	13.4	-	273.3 µS	-	44	-
1013	/ 1.5	6.95	14.2	-	248.8	-	52	64.30
1016	/ 3	6.89	14.7	-	242.9	-	62	69.95
1019	/ 4.5	7.07	14.3	-	243.3	-	70	72.01
	/			post 4.44				
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other On Site Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 2/28/07 / 1024

Purging Equipment: Pump - Type: ___ Bailer - Type: Disp Other: ___

Sample Filtered: (Yes) No Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF01GW06	3 x 500 ml Poly NP	C&T	2183	MS/MSD
	3 x 500ml Poly HNO3			
	3 x 500ml Poly NaOH			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area 2893 LFOU Well No. LFOUGW07

Project Number 2993 Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By P.Cornish Sampled by P.Cornish Date 2/28/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 72.06

Depth to Water (WL, ft. below TOC): 55.30

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type Disp.

[ ] Normal [ ] Pump \ Type

[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate Purge Rate 0.5gpm

4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type Myron L Ultrameter / Hach 2100 DO YSI 550A

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	(ft.) DTW:	Comments
1444	/	Initial	6.68	14.3	pre 3.76	732.3 us	-	5	-	
1447	/	1.5	6.81	14.8	-	738.2	-	3	55.90	
1450	/	3	6.78	15.0	-	736.6	-	6	56.12	
1453	/	4.5	6.80	14.8	-	746.8	-	12	57.01	
	/				post 4.44					
	/									
	/									
	/									
	/									
	/									
	/									
	/									
	/									
	/									
	/									

Comments Purge water storage/disposal [ ] Drummed onsite [X] Other On site Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled 2/28/07 / 1500

Purging Equipment: Pump - Type Bailer - Type Disp Other

Sample Filtered: (Yes) / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LFOUGW07	1x500ml Poly NP	CAT	2163	
	1x500ml Poly HNO_3			
	1x500ml Poly NaOH			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: LF02 | Well No.: LF02GW01

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: P. Cornish | Date: 2/28/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 19.66

Depth to Water (WL, ft. below TOC): 0.27

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp.

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: 0.5 gpm

6.0 gals ACTUAL PURGE VOLUME

DO YSI 550A

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron Ultrameter / Hach 2100

Time	/ Liters or (Gallons)	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	(FP) DTW!	Comments
1125	/ Initial	7.33	13.1	pre 0.93	637.1 µS	—	11		
1129	/ 1.5	7.17	12.6	—	723.6	—	6		1.99
1132	/ 3.0	7.12	12.7	—	674.7	—	7		3.02
1135	/ 4.5	6.95	12.8	—	660.0	—	5		4.10
1138	/ 6.0	7.01	12.4	—	656.0	—	4		4.92
	/			post 0.65					
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other offsite Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 2/28/07 / 1145

Purging Equipment: Pump - Type: Bailer - Type: Disp Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF02GW01	1x 500ml Poly NP	CET	2153	
	1x 500ml Poly HNO3			
	1x 500ml Poly NaOH			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area LF02 Well No. LF02GW02

Project Number 2893 Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By R.Gornish Sampled by R Gornish Date 2/28/07

WELL PURGING

PURGE VOLUME

Well casing diameter

[ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 18.81

Depth to Water (WL, ft. below TOC): 1.85

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged

[ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type Disp.

[ ] Normal [ ] Pump \ Type

[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate Purge Rate 0.5gpm

4.5 gals ACTUAL PURGE VOLUME

DO YSI 550A

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type Myron L Ultrameter / Hach 2100

Time	/	Liters or (Gallons)	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	(FP) DTW:	Comments
1222	/	Initial	7.22	11.9	pre 0.68	1399 µS	-	3	-	
1225	/	1.5	6.95	12.4	-	1410	-	5	3.80	
1228	/	3	7.16	12.6	-	1417	-	7	5.41	
1231	/	4.5	7.15	12.2	-	1415	-	12	7.85	
	/				post 0.62					
	/									
	/									
	/									
	/									
	/									
	/									
	/									
	/									
	/									
	/									

Comments Purge water storage/disposal [ ] Drummed onsite [X] Other Onsite Tank

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled 2/28/07 / 1238

Purging Equipment Pump - Type Bailer - Type Disp Other

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF02GW02	1x500ml Poly ND	CET	2493	
	1x500ml Poly HNO3			
	1x500ml Poly NaOH			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: LF01 | Well No.: LF01GW04

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P-Cornish | Sampled by: P-Cornish | Date: 3/1/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 30.45

Depth to Water (WL, ft. below TOC): 17.69

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp.

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other *

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: 0.5gpm

4.5 gals ACTUAL PURGE VOLUME

DO YSI 550A

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron L 4 Ultrameter / Hach 2100

Time	/	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	(ft.) DTW:	Comments
1446	/	initial	7.37	14.5	pre 0.51	1048 µS	-	10	-	
1451	/	1.5	7.45	14.6	-	1042	-	6	18.50	
1454	/	3	7.41	14.8	-	1038	-	6	19.02	
1457	/	4.5	7.52	13.8	-	1032	-	10	19.50	
	/				post .022					
	/									
	/						DTW: 19.82		post Purge	
	/									
	/									
	/									
	/									
	/									
	/									
	/									
	/									

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other onsite Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/1/07 / 1502

Purging Equipment: Pump - Type: Bailer - Type: Disp. Other:

Sample Filtered: Yes / No Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF01GW04	1x500ml Poly NP	CET	2197	
	1x500ml Poly HNO3			
	1x250ml Poly NP			
	1x500ml Poly NaOH			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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LANDFILL E
APPENDIX SECTION A-7
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2007
Presidio of San Francisco, California

1.0 INTRODUCTION AND BACKGROUND

Landfill E is located in the east-central portion of the Presidio (Figure 1). The site is bounded by hillsides to the west and south, housing to the east, Quarry Road to the southeast, and Hicks Road and Barnard Avenue to the northwest (Figure A-7-1). The site elevation ranges from approximately 70 to 140 feet above the PLLW vertical datum.

The ravine east of Landfill E operated as a firing range, the former Barnard Avenue Protected Target Range, from 1910 to the mid-1920s (Montgomery Watson, 1996d). The southern portion of the range is currently covered by Landfill E. Filling began at Landfill E prior to 1946 and was terminated between 1965 and 1973 (ANL, 1989). Pop Hicks baseball field was constructed in the landfill area in the late 1950s (Montgomery Watson, 1996d).

Since August 1992, groundwater samples from Landfill E have been analyzed for TPH, VOCs, PAHs, OCPs and PCBs, chlorinated herbicides, metals, TDS and general chemistry. No OCPs, PCBs or chlorinated herbicides have ever been detected in groundwater at the site. Landfill E monitoring well analytical results are present in Tables A-7-1 through A-7-4 in this section.

Monitoring wells DAEGW03, DAEGW05, and DAEGW08 were also sampled for perchlorate and polybrominated diphenyl ether (PBDE) as part of the Trust's Emergent Chemical Study conducted at the request of the RWQCB during the First Quarter 2004. No perchlorate or PBDE was detected above laboratory reporting limits during the Emergent Chemical Study (Treadwell &Rollo, 2004b).

EKI completed a field investigation for the Trust to further characterize the landfill in November and December 2002. The results of this field investigation are presented in the *Landfill E Field Sampling Report, Presidio of San Francisco, California* prepared by EKI and Golder Associates (Golder) and submitted to the agencies and RAB by the Presidio Trust in June 2003. A Focused Feasibility Study (FFS) for Landfill E was completed in 2005. A RAP is scheduled to be completed in 2009.

2.0 SITE DESCRIPTION AND GEOLOGY

Landfill E is located at the edge of the Northeastern Groundwater Area of the Marina Groundwater Basin (Figure 1). Depth to groundwater beneath Landfill E has ranged from

approximately 9 to 60 feet bgs. The groundwater flow direction around Landfill E is generally northeasterly, toward Crissy Field (Montgomery Watson, 1997a).

A fenced field and a paved parking lot currently occupy the majority of the site (Figure A-7-1). Soils in the area of Landfill E generally consist of fill materials underlain by the Colma Formation and serpentinite bedrock. The fill material under the Landfill E footprint extends to a maximum depth of approximately 38 feet bgs. The debris fill consists of glass, brick, tile, and other general construction debris (Dames & Moore, 1997). The fill layer is underlain by Colma Formation clay, silt, and sand. The Colma Formation is at least 25 feet thick. Franciscan Formation bedrock lies beneath the Colma Formation. The bedrock consists of weathered serpentinite and is found at depths ranging from 40 to 79 feet bgs (Montgomery Watson, 1997a).

3.0 GROUNDWATER MONITORING

Landfill E has 12 associated groundwater monitoring wells and piezometers (Figure A-7-1). During the First and Second Quarters 2007, groundwater elevation measurements were attempted at all 12 wells and piezometers (Table A-7-5). Groundwater samples were collected from nine monitoring wells during the First Quarter 2007, in accordance with the proposed sampling schedule (Table 1A). No groundwater samples were collected from well DAEGW07 because it did not contain a sufficient amount of water during the First Quarter 2007. No monitoring wells were scheduled for sampling during the Second Quarter 2007. Landfill E seep was observed to be dry and not flowing during the Second Quarter 2007 (Figure A-7-2).

The proposed sampling schedule also included collecting surface water samples from Landfill E seep DAESP03 during both the First and Second Quarters 2007. No samples were collected during the First or Second Quarters as the surface water seep was dry. This seep typically only flows during the First Quarter when rainfall is heavy. The approximate location of DAESP03 is presented on Figures A-7-1 and A-7-2.

3.1 Groundwater-Level Measurements and Interpretation

Groundwater elevation measurements were collected on 26 February 2007 at all site wells and piezometers. Groundwater elevations are presented in Table A-7-5. Water level meters were calibrated on 26 February 2007. The calibration logs can be found in Appendix B. Groundwater elevation field forms can be found in Appendix C. Groundwater elevation measurements were not collected during the Second Quarter 2007.

First Quarter 2007 groundwater elevations ranged from 52.14 to 105.03 feet above PLLW in monitoring wells DAEGW08 and DAEGW104, respectively. A groundwater elevation map showing First Quarter 2007 groundwater contours and flow directions for Landfill E is included as Figure A-7-1. Groundwater flow was to the northeast following the general topographic trend, which is also consistent with previous interpretations. The groundwater gradient was calculated to be approximately 0.11 feet per foot, which is also consistent with previous quarters.

The groundwater elevations for the First Quarter 2007 are generally within the range of historical elevations measured at the site. Groundwater elevations from wells DAEGW06 and DAEGW07 have not been used in calculating groundwater gradients or determining flow directions during these or previous quarters. Monitoring well DAEGW06 had a groundwater elevation of 104.53 feet above PLLW during the First Quarter 2007. This well is located southwest of the other site wells and was previously interpreted as being installed in a semi-confined aquifer. Groundwater within well DAEGW07 was measured at 66.14 feet above PLLW during the First Quarter 2007. These groundwater elevations represent perched groundwater conditions. Wells DAEGW03, DAEGW04, DAEGW05, DAEGW08, DAEGW102 through DAEGW104 and piezometers DAEPZ101 and DAEPZ102 are screened in an unconfined aquifer (Montgomery Watson, 1999d and EKI & Golder Associates, 2003).

3.2 Monitoring Well Purging and Sampling

During the First Quarter 2007, all Landfill E monitoring wells, with the exception of DAEGW07, were sampled on 1, 2, and 7 March 2007. Monitoring well DAEGW101 contained a limited volume of water during the First Quarter 2007 and went dry during purging. As a result, the full suite of analyses proposed for DAEGW101 was not collected.

Monitoring well DAEGW07 did not contain a sufficient amount of water for sampling during the First Quarter 2007. Surface water samples were not collected from location DAESP03, during the First and Second Quarter 2007, because it was dry.

All First Quarter 2007 groundwater samples were collected using methods shown in Table 1A, and in accordance with procedures described in the FSP (Treadwell & Rollo, 2001a).

Purge equipment, purging volumes, purge water parameters, and sampling equipment for each monitoring well are described in the purge records at the conclusion of this section. Purge water was stored for future disposal in a 2,800-gallon aboveground polyethylene storage tank located at the Central Magazine.

3.3 Groundwater Analytical Program

All groundwater samples collected were submitted to the project laboratory for the analyses shown in Table 1A, with the exception of the groundwater samples collected from DAEGW101. Due to a limited amount of water present within DAEGW101, the only analyses requested during the First Quarter 2007 were dissolved metals, TDS, VOCs, PAHs, and TPHg.

The appropriate sampling containers, preservatives, and maximum holding times for each analytical method are shown in Table 5. Sample containers used for each well are described in the purge records located at the conclusion of this section.

QA/QC samples were collected as part of this program. Section 6.2 of the main report discusses the QA/QC sampling and analysis performed during the First Quarter 2007.

4.0 GROUNDWATER ANALYTICAL RESULTS

Nine Landfill E monitoring wells were sampled during the First Quarter 2007 and samples were analyzed for some or all of the following: general chemistry parameters, metheylene blue active substances (MBAS), total hardness, molybdenum, TDS, OCPs, PCBs, VOCs, PAHs, TPHg, TPHd, and TPHfo, and 22 or 23 dissolved/total metals. Due to a limited amount of water present within DAEGW101, the only analyses requested during the First Quarter 2007 were dissolved metals, TDS, VOCs, PAHs, and TPHg. Analytical results are discussed below.

4.1 Dissolved Oxygen

Dissolved oxygen results are presented in Table A-7-1. During the First Quarter 2007, dissolved oxygen was measured at concentrations ranging from 0.26 mg/L in monitoring well DAEGW08 to a new high concentration of 6.98 mg/L in monitoring well DAEGW103. The dissolved oxygen concentrations measured in First Quarter 2007 were within the historical concentration range for these wells, with the exception of the concentration measured in DAEGW103, which was a new high concentration.

4.2 General Chemistry and Total Hardness Results

General chemistry results are presented in Table A-7-1. Most general chemistry results for the First Quarter 2007 at Landfill E were within historical ranges. The table below summarizes new high and low general chemistry analytical results for the First Quarter 2007 when compared to previous sampling events, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the date sampling commenced, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2007		Units
			Minimum	Maximum	Minimum	Maximum	
General Chemistry							
DAEGW03	N as Nitrate	18/18	0.25	2.8	0.22	--	mg/L
DAEGW04	N as Nitrate	17/17	1	4.7	0.19	--	mg/L
	Sulfate	33/33	31	82	25	--	mg/L
DAEGW06	Total Dissolved Solids	26/26	390	547	380	--	mg/L
DAEGW102	Alkalinity, Total	12/12	650	1,100	540	--	mg/L
	Bicarbonate	12/12	650	1,100	540	--	mg/L
	Chloride	12/12	370	840	320	--	mg/L
	N as Nitrate	11/12	0.11	1	0.05	--	mg/L
	Sulfate	12/12	240	410	97	--	mg/L
	Total Dissolved Solids	12/12	1,270	2,240	1,070	--	mg/L
DAEGW104	Total Dissolved Solids	18/18	330	810	293	--	mg/L

The majority of the general chemistry parameters listed above are only slightly higher or lower than historical ranges and are not considered significant. Significant new high and low general chemistry results are discussed below.

- Nitrate as nitrogen was detected at new low concentrations in the samples collected from DAEGW03, DAEGW04, and DAEGW102 during the First Quarter 2007. The new low concentration within DAEGW04 is more than five times lower than the previous low concentration for this location.

- Sulfate was detected at a new low concentration of 97 mg/L in the sample collected from DAEGW102 during the First Quarter 2007. The First Quarter 2007 concentration is significantly lower than the previous low concentration (240 mg/L) for this location.

The concentration fluctuations of general chemistry parameters can likely be attributed to natural concentration fluctuations and are not considered to be significant.

4.3 TPH Results

TPH results are presented in Table A-7-2. No TPH compounds were detected above laboratory reporting limits within any Landfill E monitoring wells sampled for these analytes during the First Quarter 2007.

4.4 VOC Results

VOC results are presented in Table A-7-3. Benzene was detected within the sample collected from monitoring well DAEGW03 at a concentration of 0.1 µg/L during the First Quarter 2007. This is the third time benzene has been detected in samples from DAEGW03. Benzene has been detected at similar concentrations on previous occasions at DAEGW04, DAEGW102, and DAEGW104. No other VOC compounds were detected above laboratory reporting limits within Landfill E monitoring wells during the First Quarter 2007.

4.5 PAH, OCP, and PCB Results

PAHs, OCPs, and PCBs were analyzed during the First Quarter 2007 and results are presented in Table A-7-3. No PAHs, OCPs, or PCBs were detected within any of the groundwater samples collected from Landfill E monitoring wells and analyzed for these compounds during the First Quarter 2007.

4.6 Dissolved Metals Results

Dissolved metals results are presented in Table A-7-4. The table below summarizes new high and low dissolved metals results detected during the First Quarter 2007 when compared to previous sampling events, and provides the range and frequency of historical results. The total

number of analyses may vary depending on the sampling frequency, the date sampling commenced, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2007		Units
			Minimum	Maximum	Minimum	Maximum	
Metals							
DAEGW05	Nickel	33/33	22.9	125	--	1,000	ug/L
DAEGW06	Total Dissolved Solids	26/26	390	547	380	--	mg/L
DAEGW101	Barium	9/9	18	64	--	72	ug/L
	Calcium	9/9	160,000	180,000	--	190,000	ug/L
	Copper	8/9	<1	2.2	--	2.7	ug/L
DAEGW102	Potassium	12/12	2,100	7,000	1,900	--	ug/L
	Sodium	12/12	110,000	210,000	88,000	--	ug/L
	Total Dissolved Solids	12/12	1,270	2,240	1,070	--	mg/L
DAEGW104	Arsenic	3/18	1.9	11	1	--	ug/L
	Barium	17/17	20	41	--	80.3	ug/L
	Cadmium	1/17	<1	<1	0.02	--	ug/L
	Cobalt	1/17	<1	<10	0.29	--	ug/L
	Copper	2/17	<1	3.5	0.4	--	ug/L
	Magnesium	17/17	41,000	52,700	--	55,100	ug/L
	Manganese	13/17	<10	330	--	538	ug/L
	Total Dissolved Solids	18/18	330	810	293	--	mg/L
	Molybdenum	2/16	<5	<20	2.34	--	ug/L

The majority of the new high and low dissolved metals results listed above were only slightly above or below historical bounds and are not considered to be significant, with the following exceptions.

- Nickel was detected during the First Quarter 2007 in monitoring well DAEGW05 at concentration of 1,000 µg/L, which is significantly higher than the previous high concentration of 125 µg/L detected in this well. Additionally, this is the first detection at this location which has exceeded the Landfill E cleanup level for nickel of 158 µg/L.

- Barium was detected at a new high concentration of 80.3 µg/L within the QC sample from monitoring well DAEGW104 during the First Quarter 2007. This concentration does not exceed the cleanup level for barium at Landfill E.

In addition to the above new high and low concentrations, several metals were detected above cleanup levels, listed in the FFS for Landfill E. Metals detected above applicable cleanup levels are listed below.

- Cadmium was detected at a concentration of 4.8 µg/L within DAEGW03, which exceeds the applicable cleanup level of 1.1 µg/L. Cadmium concentrations within DAEGW03 have exceeded the cleanup level several times since 1998.

- Nickel was detected in DAEGW04 and DAEGW05 at concentrations of 3,200 and 1,000 µg/L, respectively. Both concentrations exceed the Landfill E cleanup level of 158 µg/L. Nickel has consistently been detected above its cleanup level within DAEGW04. However, the nickel exceedance in groundwater from DAEGW05 is the first at this location.

- Chromium was detected at a concentration of 19 µg/L in DAEGW103, which exceeds the applicable cleanup level of 11 µg/L. Chromium has typically been detected above 11 µg/L within DAEGW103. Chromium was also detected at the cleanup level within groundwater from DAEGW05 during the First Quarter 2007.

4.7 MBAS, Total Hardness, and Molybdenum Results

MBAS and total hardness results are presented in Table A-7-2. Molybdenum results are presented in Table A-7-4. Samples collected from monitoring wells DAEGW102 through DAEGW104 were the only Landfill E samples analyzed for MBAS and total hardness during the First Quarter 2007. MBAS and total hardness were not analyzed during the Second Quarter 2007.

During the First Quarter 2007, MBAS were not detected above laboratory detection limits within any of the wells sampled. Total hardness ranged from 330 mg/L within the DAEGW104 duplicate sample to 850 mg/L within DAEGW102. Total hardness concentrations were within the historical range.

Molybdenum was detected in the QC duplicate sample DAEGW104CL during the First Quarter 2007 at a concentration of 2.34 µg/L. This detection was below the reporting limit used for the primary and duplicate samples of 5 µg/L. The majority of previous molybdenum results have been non-detect at reporting limits ranging from 5 to 20 µg/L. The two exceptions were a molybdenum detection of 10 µg/L in DAEGW104 during the Fourth Quarter 2002 and a detection of 51 µg/L in the QC duplicate sample DAEGW103CL during the Third Quarter 2004.

5.0 CONCLUSIONS & RECOMMENDATIONS

Groundwater elevations, gradients, and flow directions are consistent with historical values and interpretations. No significant trends or observations were identified at Landfill E during the First and Second Quarters 2007.

The majority of the general chemistry parameters measured during the First Quarter 2007 are within historical ranges.

No TPHg, TPHd or TPHfo was detected above laboratory reporting limits within any Landfill E monitoring wells during the First Quarter 2007.

Benzene was detected within the sample collected from monitoring well DAEGW03 at a concentration of 0.1 µg/L during the First Quarter 2007. No other VOC compounds were detected above laboratory detection limits within Landfill E monitoring wells during the First Quarter 2007.

No PAHs, OCPs, or PCBs were detected within any of the groundwater samples collected from Landfill E monitoring wells during the First Quarter 2007.

Several metals (cadmium, nickel and chromium) were detected above Landfill E cleanup levels during the First Quarter 2007. With the exception of nickel within DAEGW05, the metals concentrations detected were within historical ranges.

MBAS were not detected above laboratory detection limits within any of the wells sampled. Total hardness concentrations were within historical range.

Molybdenum was detected in the QC duplicate sample DAEGW104CL during the First Quarter 2007 at a concentration of 2.34 µg/L. This detection was below the reporting limit used for the primary and duplicate samples of 5 µg/L.

Table A-7-1
Results of General Chemistry and Cyanide Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	SW9012	Field	E300.0/ E340.2	E300.0/ E353.2	E300.0/ E353.2	E353.2	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
DAEGW03	03/02/07	820	820	90	NA	0.98	< 0.1	0.22	< 0.05	NA	110
	03/14/06	600	600	110	NA	1.76	< 0.1	0.53	< 0.05	NA	110
	03/16/05	800	800	110	NA	0.20	< 0.1	0.69	< 0.05	NA	110
	03/11/04	740	740	110	NA	0.9	< 0.1	0.68	< 0.05	NA	110
DUP0311043A	03/11/04	740	740	110	NA	--	< 0.1	0.73	< 0.05	NA	110
DAEGW03CL	03/11/04	730	730	110	NA	--	< 0.1	0.86	< 0.05	0.86	110
	08/20/03	690	690	130	NA	0.53	0.14	0.75	< 0.05	NA	130
	03/13/03	700	700	150	NA	0.4	< 0.1	0.8	< 0.05	NA	130
	12/04/02	680	680	170	NA	1.8	< 0.1	0.6	< 0.05	NA	150
	09/03/02	750	750	180	NA	1.1	0.25	0.6	< 0.05	NA	160
	06/04/02	860	860	140	NA	2.1	0.14	0.25	< 0.05	NA	160
	03/12/02	740	740	170	NA	2.3	< 0.1 U	0.64	< 0.05	NA	160
	12/03/01	770	770	160	NA	1.4	0.14	0.41 J	< 0.05 UJ	NA	140
	08/28/01	720	720	200	NA	2.3	0.12	0.44	< 0.05	NA	180
	05/17/01	620	620	150	NA	1.5	0.18	0.36	< 0.05	NA	150
	05/17/99	811	811	190	NA	0.13	0.13	NA	NA	1.07	200
	02/15/99	852	852	180	NA	0.28	< 0.1	NA	NA	0.64	210
	11/16/98	871	871	180	NA	0.46	< 0.5	NA	NA	0.8	230
	08/14/98	845	845	84	NA	0.16	0.13	NA	NA	1.26	274
	04/14/98	860	860	140	NA	0.42	0.11	NA	NA	1	350
	01/13/98	820	820	160	NA	0.43	0.1	NA	NA	1.2 (J16)	200
	11/10/97	770	770	170	NA	0.5	0.1	NA	NA	1.2	230
	08/11/97	800	800	120	NA	0.01	0.1	NA	NA	1.5	300
	05/13/97	800	800	110	NA	0.1	0.1	NA	NA	1.2	280
	02/12/97	760	760	120	NA	0.08	0.1	NA	NA	1	230
	12/05/96	790	790	130	NA	NM	0.1	NA	NA	1.3	210
	08/28/96	780	780	160	NA	NM	0.1	NA	NA	1.4	340
	05/30/96	820	820	120	NA	NM	0.1	NA	NA	1.1	260
	03/05/96	879	879	113	NA	NM	1	0.75	NA	NA	172
	12/11/95	864	864	121	NA	NM	1.1	0.73	NA	NA	191
	09/11/95	610	610	73	NA	NM	< 0.25	NA	NA	0.6	200
	11/08/94	958	958	95	NA	NM	NA	2.8	NA	NA	219
	08/27/92	560	563	140	NA	NM	NA	NA	NA	0.014	240

Table A-7-1
Results of General Chemistry and Cyanide Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	SW9012	Field	E300.0/ E340.2	E300.0/ E353.2	E300.0/ E353.2	E353.2	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
DAEGW04	03/07/07	330	330	86	NA	4.00	< 0.1	0.19	< 0.05	NA	25
	03/14/06	370	370	140	NA	4.27	< 0.1	1.2	< 0.05	NA	56
	03/16/05	510	510	140	NA	0.1	< 0.1	1	< 0.05	NA	63
	03/17/04	320	320	180	NA	0.7	< 0.1	1.3	< 0.05	NA	79
	08/20/03	280	280	190	NA	2	< 0.1	1.9	< 0.05	NA	82
	03/13/03	400	400	170	NA	0.9	< 0.1	3	< 0.05	NA	75
	12/04/02	290	290	160	NA	2.8	< 0.1	2.4	< 0.05	NA	67
	09/03/02	290	290	150	NA	0.8	0.23	2.4	< 0.05	NA	59
	06/04/02	720	720	150	NA	2.4	0.15	2.2	< 0.05	NA	64
	03/12/02	340	340	180	NA	3.2	< 0.1 U	4.7	< 0.05	NA	70
	12/03/01	320	320	170	NA	NM	0.078 J	3.5 J	< 0.05 UJ	NA	63
DUP1203011B	12/03/01	320	320	170	NA	--	0.078 J	3.6 J	< 0.05 UJ	NA	62
	08/29/01	300	300	150	NA	2.8	0.08 J	3 J-	< 0.05 R	NA	60
	05/17/01	310	310	140	NA	6.1	0.12	2.9	< 0.05	NA	57
	05/17/99	361	361	152	NA	7.09	< 0.1	NA	NA	1.75	56
	02/15/99	286	286	117	NA	7.2	< 0.1	NA	NA	2.18	48
	11/16/98	227	227	79	NA	6.83	< 0.1	NA	NA	2.49	40
	08/14/98	229	229	66	NA	10.26	0.12	NA	NA	1.91	45
	04/14/98	270	270	110	NA	6.43	0.1	NA	NA	1.6	51
	01/13/98	290	290	100	NA	6.63	< 0.1	NA	NA	1.8 (J16)	43 (J8)
	11/10/97	290	290	80	NA	7.87	0.1	NA	NA	2.3	46
	08/11/97	170	170	50	NA	6.01	0.3	NA	NA	1.5	32
	05/13/97	240	240	60	NA	6.32	0.1	NA	NA	1.8	37
	02/12/97	360	360	90	NA	6.82	< 0.1	NA	NA	2	63
	12/05/96	300	300	66	NA	NM	< 0.1	NA	NA	3	45
	08/29/96	300	300	80	NA	NM	< 0.1	NA	NA	1.4	48
	06/10/96	310	310	80	NA	NM	< 0.1	NA	NA	1.9	46
	03/07/96	271	271	70	NA	NM	0.38	2.06	NA	NA	45
	12/11/95	176	176	44	NA	NM	0.3	2	NA	NA	31
	09/11/95	300	300	67	NA	NM	< 0.25	NA	NA	2.1	44
	11/09/94	374	374	71	NA	NM	NA	2.66	NA	NA	50.2
	11/02/92	360	359	96	NA	NM	NA	NA	NA	3.2	60.3

Table A-7-1
Results of General Chemistry and Cyanide Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	SW9012	Field	E300.0/ E340.2	E300.0/ E353.2	E300.0/ E353.2	E353.2	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
DAEGW05	03/02/07	410	410	150	NA	0.94	< 0.1	1.9	< 0.05	NA	110
	03/14/06	470	470	130	NA	0.67	0.1	1.9	< 0.05	NA	100
	03/16/05	460	460	130	NA	0.2	< 0.1	1.8	< 0.05	NA	110
DUP0316053A	03/16/05	490	490	130	NA	--	< 0.1	1.8	< 0.05	NA	120
	03/11/04	550	550	110	NA	0.8	< 0.1	1.3	< 0.05	NA	130
	08/19/03	640	640	78	NA	0.6	< 0.1	0.8	< 0.05	NA	140
	03/13/03	570	570	120	NA	1.2	< 0.1	1.3	< 0.05	NA	120
	12/04/02	560	560	100	NA	1.9	0.13	1.1	< 0.05	NA	120
	09/03/02	600	600	100	NA	1.1	0.25	1.1	< 0.05	NA	130
	06/04/02	540	540	140	NA	2.2	0.15	1.4	< 0.05	NA	140
	03/12/02	590	590	120	NA	1.5	< 0.1 U	1	< 0.05	NA	150
DUP0312023A	03/12/02	600	600	120	NA	--	< 0.1 U	1	< 0.05	NA	150
	12/03/01	780	780	40	NA	1.2	0.15	0.13 J	< 0.05 UJ	NA	150
	08/28/01	600	600	130	NA	0.5	0.14	0.91	< 0.05	NA	160
	05/17/01	600	600	110	NA	3.2	0.16	0.84	< 0.05	NA	150
	05/18/99	460	460	161	NA	0.12	0.17	NA	NA	< 2.53 (U4)	110
	03/15/99	533	533	140	NA	1.74	0.13	NA	NA	1.14	140
	11/17/98	531	531	172	NA	0.51 (J34)	< 0.1	NA	NA	1.56	130
	08/17/98	511	511	107	NA	0.87	0.15	NA	NA	1.77 (J33)	95
	04/15/98	540	540	110	NA	0.27	0.14	NA	NA	1	110
	01/14/98	560	560	130	NA	0.37	0.1	NA	NA	2.1 (J16)	130
	11/11/97	550	550	120	NA	0.65	0.1	NA	NA	1.8	120
	08/12/97	550	550	110	NA	0.64	0.1	NA	NA	1.7	120
	05/14/97	480	480 (J4)	90	NA	0.52	0.1	NA	NA	1.7	92
	02/13/97	570	570	90	NA	0.54	0.1	NA	NA	2	110
	12/06/96	570	570	100	NA	NM	0.1	NA	NA	1.3 (J33)	120
	08/29/96	560	560	90	NA	NM	0.1	NA	NA	1.8	120
	05/30/96	530	530	100	NA	NM	0.1	NA	NA	2.6	100
	03/06/96	481	481	125	NA	NM	0.67	2.67	NA	NA	103
	12/11/95	770	770	90	NA	NM	0.8	1.4	NA	NA	149
	09/12/95	620	620	80	NA	NM	< 0.25	NA	NA	1.4	130
	11/08/94	557	545	138	NA	NM	NA	3.55	NA	NA	123
	11/02/92	353	352	200	NA	NM	NA	NA	NA	3.6	130

Table A-7-1
Results of General Chemistry and Cyanide Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	SW9012	Field	E300.0/ E340.2	E300.0/ E353.2	E300.0/ E353.2	E353.2	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
DAEGW06	03/01/07	220	220	140	NA	2.05	0.24	0.09	< 0.05	NA	7.9
	03/16/06	200	200	140	NA	0.74	0.24	< 0.05	< 0.05	NA	7.6
	03/16/05	210	210	150	NA	0.7	0.25	< 0.05	< 0.05	NA	7.8
	03/11/04	220	220	150	NA	0.4	0.23	< 0.05	< 0.05	NA	7.8
	08/20/03	220	220	140	NA	1.5	0.25	< 0.05	< 0.05	NA	7.7
	03/12/03	220	220	140	NA	1.1	0.24	< 0.05	< 0.05	NA	7.2
	12/04/02	220	220	140	NA	0.8	0.18	< 0.05	< 0.05	NA	8.2
	09/03/02	210	210	140	NA	0.9	0.35	0.22	< 0.05	NA	8.2
	06/04/02	210	210	140	NA	2.2	0.24	0.12	< 0.05	NA	8.5
	03/12/02	210	210	150	NA	1	< 0.1 U	0.04 J	< 0.05	NA	8.7
	12/03/01	230	230	150	NA	2.4	0.26	0.02 J,J	< 0.05 UJ	NA	9.5
	08/28/01	210	210	140	NA	1.4	0.27	0.06	< 0.05	NA	8.6
	05/17/01	210	210	140	NA	1.9	0.26	0.03 J	< 0.05	NA	8.3
DUP0517012A	05/17/01	220	220	140	NA	--	0.31	0.03 J	< 0.05	NA	8.4
	05/17/99	240	240	160	NA	3.12	0.27	NA	NA	0.057	< 20
	02/15/99	208	208	160	NA	0.64	0.19	NA	NA	0.49	< 25
	11/16/98	240	240	180	NA	3.75 (J35)	< 0.5	NA	NA	1.27	12
	08/14/98	248	248	120	NA	0.9	0.21	NA	NA	0.082	13.5
	04/14/98	230	230	160	NA	3.25	0.24	NA	NA	0.057	< 20
	01/13/98	240	240	140	NA	1.11	0.3	NA	NA	0.3 (J16)	10
	11/10/97	230	230	160	NA	0.65	0.3	NA	NA	< 0.1	9
	08/11/97	250	250	140	NA	2.37	0.2	NA	NA	0.2	18
	05/13/97	240	240	130	NA	2.02	0.3	NA	NA	0.25	9.6
	02/12/97	250	250	130	NA	0.63	0.3	NA	NA	0.13	9.7
	12/06/96	260	260	110	NA	NM	0.3	NA	NA	0.2	11
	08/28/96	260	260	120	NA	NM	0.3	NA	NA	0.22	13
	05/30/96	250	250	120	NA	NM	0.3	NA	NA	< 0.05	13
	03/06/96	309	309	130	NA	NM	0.56	0.16	NA	NA	30
	12/11/95	281	281	152	NA	NM	0.6	0.24	NA	NA	19
	09/12/95	270	270	130	NA	NM	0.3	NA	NA	0.24	< 25
	04/05/95	290	288	139	NA	NM	NA	0.2	NA	NA	28

Table A-7-1
Results of General Chemistry and Cyanide Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	SW9012	Field	E300.0/ E340.2	E300.0/ E353.2	E300.0/ E353.2	E353.2	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
DAEGW07	03/15/06	130	130	26	NA	0.59	< 0.1	< 0.05	< 0.05	NA	16
	03/18/05	170	170	22	NA	0.2	< 0.1	< 0.05	< 0.05	NA	18
	03/17/04	170	170	21	NA	0.22	< 0.1	0.29	< 0.05	NA	15
DUP0317041A	03/17/04	170	170	21	NA	--	< 0.1	0.25	< 0.05	NA	15
	03/19/03	220	220	22	NA	1.73	< 0.1	< 0.05	< 0.05	NA	13
	03/11/02	210	210	21	NA	2	< 0.1	0.45	< 0.05	NA	18
	05/18/99	229	229	247	NA	6.76 (J35)	< 0.1	NA	NA	0.45	19
	03/15/99	206	206	24	NA	1.57	< 0.1	NA	NA	0.21	24
	04/15/98	180	180	32	NA	0.71	< 0.1	NA	NA	< 0.05	24
	01/14/98	130	130	40	NA	NM	< 0.1	NA	NA	3.7 (J16)	27
	12/12/97	120	120	40 (J9)	NA	4.81	< 0.1	NA	NA	0.73	31
	02/13/97	200	200	30	NA	0.95	< 0.1	NA	NA	0.13	29
	03/07/96	183	183	29	NA	NM	< 0.1	< 0.05	NA	NA	23
	12/14/95	82	82	59	NA	NM	0.2	1.8	NA	NA	54
	04/04/95	184	184	34	NA	NM	NA	< 0.2	NA	NA	40.5
DAEGW08	03/01/07	540	540	59	NA	0.26	< 0.1	< 0.05	< 0.05	NA	69
	03/14/06	640	640	150	NA	0.51	< 0.1	< 0.05	< 0.05	NA	170
	03/28/05	700	700	140	NA	3.1	< 0.1	< 0.05	< 0.05	NA	180
	03/17/04	740	740	140	NA	0.7	< 0.1	< 0.05	< 0.05	NA	180
	08/18/03	710	710	110	NA	0.3	< 0.1	0.47	< 0.05	NA	150
	03/19/03	690	690	120	NA	0.2	< 0.1	< 0.05	< 0.05	NA	150
	12/05/02	440	440	49	NA	0.3	< 0.1	0.99	< 0.05	NA	69
	09/04/02	580	580	98	NA	0.2	0.22	0.33	< 0.05	NA	130
	06/04/02	720	720	130	NA	1.4	0.12	< 0.05	< 0.05	NA	160
	03/11/02	720	720	130	NA	0.6	0.088 J	< 0.05	< 0.05	NA	170
	11/30/01	380	380	91	NA	1.8	0.061 J	2.4	< 0.05	NA	88
	08/29/01	460	460	100	NA	2	0.12	1.4	< 0.05	NA	120
	05/16/01	590	590	97	NA	2.9	0.18	0.86	< 0.05	NA	140
	05/18/99	501	501	102	NA	0.5	< 0.1	NA	NA	0.23	75
	02/16/99	489	489	76	NA	0.83	< 0.1	NA	NA	1.28	110
	11/17/98	444	444	95	NA	1.26	< 0.1	NA	NA	0.33	98
	08/17/98	406	406	69	NA	0.67	1.1	NA	NA	< 0.05	53
	04/15/98	400	400	64	NA	0.77	< 0.1	NA	NA	< 0.05	82
	01/14/98	430	430	< 60 (U4)	NA	0.88	< 0.1	NA	NA	< 0.6 (U16, U4)	91
	11/11/97	410	410	50	NA	1.51	< 0.1	NA	NA	0.4	86
	08/12/97	470	470	60	NA	1.5	< 0.1	NA	NA	< 0.05	77
	05/14/97	500	500	90	NA	0.39	< 0.1	NA	NA	0.54	94

Table A-7-1
Results of General Chemistry and Cyanide Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	SW9012	Field	E300.0/ E340.2	E300.0/ E353.2	E300.0/ E353.2	E353.2	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
DAEGW08	02/13/97	520	520	100	NA	0.29	< 0.1	NA	NA	0.05	100
	12/06/96	500	500	60	NA	NM	< 0.1	NA	NA	0.18	120
	08/29/96	460	460	70	NA	NM	< 0.1	NA	NA	0.08	90
	06/10/96	690	690	100	NA	NM	0.2	NA	NA	0.08	170
	03/07/96	694	694	203	NA	NM	0.71	< 0.05	NA	NA	234
	12/14/95	527	527	60	NA	NM	0.6	0.07	NA	NA	96
	09/12/95	610	610	110	NA	NM	0.31	NA	NA	0.2	170
	04/03/95	562	560	68	NA	NM	NA	< 0.2	NA	NA	128
DAESP03	03/08/06	89	89	28	NA	7.23	< 0.1	1.7	< 0.05	NA	16
DUP0308063A	03/08/06	78	78	29	NA	NA	< 0.1	1.7	< 0.05	NA	16
DAESP03CL	03/08/06	75	75	30	< 0.01 U	NA	< 1 U	1.62	0.027	NA	15.7
	03/22/05	61	61	20	< 0.01	9.8	< 0.1	1.6	< 0.05	NA	9.5
	12/28/01	41	41	22	< 0.01	NM	0.038 J	1	< 0.05	NA	7.8
DUP112801 [3]	12/28/01	42	42	22	< 0.01	--	0.036 J	1	< 0.05	NA	7.8
DAESP03 [2]	02/01/99	70.8	70.8	32	NA	11	< 0.1	NA	NA	1.93	18
	02/24/98	81.1	81.1	20.9	NA	10	< 0.1	NA	NA	0.85	16.4
	01/23/98	229	229	20.6	NA	10	0.17	NA	NA	2	33.1
DAEGW101	03/01/07	NA	NA	NA	NA	0.91	NA	NA	NA	NA	NA
	03/16/06	870	870	19	NA	0.1	< 0.1	< 0.05	< 0.05	NA	87
	05/26/05	790	790	18	NA	0.3	0.1	< 0.05	< 0.05	NA	100
	03/16/05	780	780	17	NA	0.1	0.11	0.69	< 0.05	NA	100
	12/15/04	NA	NA	NA	NA	NM	NA	NA	NA	NA	NA
	08/12/04	NA	NA	NA	NA	0.25	NA	NA	NA	NA	NA
	05/27/04	840	840	21	NA	1.7	0.11	0.95	< 0.05	NA	100
	03/11/04	770	770	25	NA	0.3	0.14	1.7	0.28	NA	110
	08/20/03	800	800	63	NA	0.6	0.23	2.2	0.2	NA	130
	06/05/03	800	800	53	NA	0.8	0.22	1.3	< 0.05	NA	120
	03/13/03	840	840	73	NA	1	0.17	< 0.05	< 0.05	NA	120
DAEGW102	03/07/07	540	540	320	NA	0.82	0.61	< 0.05	< 0.05	NA	97
	03/16/06	800	800	370	NA	0.1	0.56	0.11	< 0.05	NA	240
	05/26/05	1100	1100	380	NA	1.1	0.57	0.21	< 0.05	NA	290
	03/16/05	1,000	1,000	450	NA	3	0.68	0.22	< 0.05	NA	320
	12/15/04	820	820	520	NA	0.8	0.65	0.28	< 0.05	NA	260
	08/12/04	950	950	510	NA	2.7	0.53	0.37	< 0.05	NA	290
	05/27/04	1,000	1,000	520	NA	2.3	0.77	0.39	< 0.05	NA	320

Table A-7-1
Results of General Chemistry and Cyanide Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	SW9012	Field	E300.0/ E340.2	E300.0/ E353.2	E300.0/ E353.2	E353.2	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
DAEGW102	03/15/04	880	880	580	NA	1.2	0.61	0.47	< 0.1	NA	300
	12/04/03	810	810	610	NA	0.8	0.66	0.64	< 0.1	NA	260
	08/19/03	900	900	630	NA	1.6	0.68	0.91 J-	< 0.1 UJ	NA	410
	06/04/03	880	880	770	NA	2	0.7	1	< 0.25	NA	340
	03/12/03	650	650	840	NA	2.4	0.64	0.96	< 0.1	NA	270
DAEGW103	03/01/07	270	270	120	NA	6.98	< 0.1	3.9	< 0.05	NA	68
	03/14/06	110	110	59	NA	4.84	< 0.1	5.2	< 0.05	NA	35
	05/26/05	240	240	130	NA	5.5	0.15	4.1	< 0.05	NA	70
	03/17/05	260	260	140	NA	6.8	< 0.1	3.9	< 0.05	NA	71
DUP0317053A	03/17/05	240	240	130	NA	--	0.1	3.9	< 0.05	NA	69
DAEGW103CL	03/17/05	249	249	140	NA	--	< 0.3 U	4.09	< 0.1 U	NA	68
	12/15/04	240	240	150	NA	6	< 0.1	4.2	< 0.05	NA	72
DUP1215042A	12/15/04	250	250	140	NA	NA	< 0.1	4.2	< 0.05	NA	71
DAEGW103CL	12/15/04	234	234	132	NA	NA	< 0.3 U	NA	NA	4.14	71.8
	08/11/04	240	240	140	NA	6.92	< 0.1	3.9	< 0.05	NA	70
DUP0811042B	08/11/04	300	300	140	NA	--	< 0.1	3.9	< 0.05	NA	69
DAEGW103CL	08/11/04	270	270	130	NA	--	0.11	NA	NA	3.3 J-	66
	05/28/04	360	360	140	NA	4.8	< 0.1	3.8	< 0.05	NA	72
DUP0528041A	05/28/04	310	310	140	NA	NA	< 0.1	3.8	< 0.05	NA	73
DAEGW103CL	05/28/04	240	240	150	NA	NA	0.14	3.9	< 0.05	3.9	74
	03/10/04	230	230	150	NA	1.8	0.11	4	< 0.05	NA	77
DUP0310043B	03/10/04	230	230	150	NA	--	0.11	4	< 0.05	NA	77
DAEGW103CL	03/10/04	230	230	140	NA	--	0.13	4	0.068	4.1 HT-04	71
	12/04/03	250	250	140	NA	3.8	0.1	4	< 0.05	NA	72
DUP1204033A	12/04/03	250	250	140	NA	--	0.1	4.1	< 0.05	NA	72
DAEGW103CL	12/04/03	230	230	153	NA	--	< 0.1	4.5 J-	< 0.05	4.5 J-	75.2
	08/19/03	240	240	130	NA	2.2	0.11	3.9 J-	< 0.05 UJ	NA	89
DUP0819033B	08/19/03	250	250	140	NA	NA	0.12	3.9 J-	< 0.05 UJ	NA	91
DAEGW103CL	08/19/03	230	230	140	NA	NA	0.1 J+	4.2 J-	< 0.05	4.2 J-	70
	06/04/03	240	240	150	NA	4.8	0.14	4.2	< 0.05	NA	78
DUP0604033A	06/04/03	260	260	150	NA	--	0.15	4.2	< 0.05	NA	78
DAEGW103CL	06/04/03	230	< 20	140	NA	--	0.17	4.1 J-	< 0.05	4.1 HT-04,J-	65

Table A-7-1
Results of General Chemistry and Cyanide Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	SW9012	Field	E300.0/ E340.2	E300.0/ E353.2	E300.0/ E353.2	E353.2	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
DAEGW103	03/13/03	300	300	140	NA	6.1	< 0.1	4.2	< 0.05	NA	76
DUP0313033A	03/13/03	230	230	140	NA	--	0.13	4.3	< 0.05	NA	72
DAEGW103CL	03/13/03	240	240	140	NA	--	0.13	3.8	0.082 J-	3.9	67
	11/25/02	230	230	140	NA	NM	NA	NA	NA	NA	74
DAEGW104	03/02/07	280	280	79	NA	1.49	0.27	< 0.05	< 0.05	NA	14
DUP0302071A	03/02/07	290	290	78	NA	--	0.29	< 0.05	< 0.05	NA	13
DAEGW104CL	03/02/07	272	NA	NA	NA	--	0.3	< 0.5	< 0.1	NA	14.5
	03/16/06	340	340	72	NA	0.08	0.27	< 0.05	< 0.05	NA	11
	05/26/05	270	270	77	NA	0.5	0.27	< 0.05	< 0.05	NA	26
DAEGW104CL	05/26/05	287	287	78	NA	NM	0.4	1	< 1 U	NA	25
DUP0526052A	05/26/05	270	270	76	NA	NM	0.26	< 0.05	< 0.05	NA	26
	03/16/05	340	340	73	NA	0.3	0.29	0.06	< 0.05	NA	14
	12/15/04	290	290	72	NA	0.9	0.28	0.07	< 0.05	NA	11
	08/12/04	270	270	69	NA	0.32	0.29	0.05	< 0.05	NA	10
	05/27/04	350	350	69	NA	1.4	0.29	0.07	< 0.05	NA	11
	03/15/04	280	280	73	NA	0.8	0.31	< 0.05	< 0.05	NA	11
	12/04/03	300	300	70	NA	0.9	0.3	0.13	< 0.05	NA	11
	08/19/03	280	280	66	NA	0.6	0.36	0.07 J-	< 0.05 UJ	NA	12
DUP0819033A	08/19/03	280	280	67	NA	NA	0.34	< 0.05 UJ	< 0.05 UJ	NA	11
	06/04/03	290	290	78	NA	1.1	0.35	0.19	< 0.05	NA	12
	03/12/03	370	370	79	NA	1.8	0.3	< 0.05	< 0.05	NA	12
	11/25/02	280	280	260	NA	NM	NA	NA	NA	NA	48

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in their respective quarterly reports.
2 - This sample was labeled LFE-GW on the chain of custody and was reported by the laboratory as LFE-GW. This sample ID (LFE-GW) has been changed within the text, tables and database to reflect the historic name of this seep (DAESP03).
3 - This sample was labeled LFE-GWD on the chain of custody and was reported by the laboratory as LFE-GWD. In accordance with the QAPP, this sample ID (LFE-GWD) was changed to DUP112801 within the text, tables and database.
mg/L - milligrams per liter
NA - Not analyzed
NM - Not measured
"--" dissolved oxygen measurements were not taken for duplicate and quality control samples.
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-7-2
Results of MBAS, Total Hardness, and TPH Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	MBAS	Total Hardness	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	E425.1	E130.2/ E310.1	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)
DAEGW03	03/02/07	NA	NA	< 50	< 50 b UJ	< 300 b UJ
	03/14/06	NA	NA	< 50	< 50	< 300
	03/16/05	NA	NA	< 50	< 50	< 300
	03/11/04	NA	NA	< 50	< 50	< 300
DUP0311043A	03/11/04	NA	NA	< 50	140 HY	< 300
DAEGW03CL	03/11/04	NA	NA	< 50	< 50	< 250
	08/20/03	0.12 J	740	< 50	< 50	< 300
	03/13/03	NA	NA	< 50	< 50	< 300
	03/12/02	NA	NA	< 50	< 50	< 300
	05/17/01	NA	NA	< 50	< 50	< 300
	02/15/99	NA	NA	< 50	< 50	< 300
	01/13/98	NA	NA	< 50	< 50	< 300
	12/05/96	NA	NA	< 50	< 50	< 300
	08/28/96	NA	NA	< 50	< 50	< 300
	05/30/96	NA	NA	< 50	< 50	< 300 (U16)
	03/05/96	NA	NA	< 50	110 (J32)	3,000 (J32)
	12/11/95	NA	NA	< 50	< 50	< 300
	09/11/95	NA	NA	< 50	< 50	< 1,300
	11/08/94	NA	NA	< 50	NA	NA
	08/27/92	NA	NA	NA	70	NA
DAEGW04	03/07/07	NA	NA	NA	< 50	< 300
	03/14/06	NA	NA	NA	< 50	< 300
	03/16/05	NA	NA	NA	< 50	< 300
	03/17/04	NA	NA	NA	< 50	< 300
	08/20/03	< 0.1 UJ	500	NA	< 50	< 300
	03/13/03	NA	NA	NA	< 50	< 300
	03/12/02	NA	NA	NA	< 50	< 300
	05/17/01	NA	NA	NA	< 50	< 300
	02/15/99	NA	NA	< 50	77 J25	< 300
	01/13/98	NA	NA	< 50	< 50	< 300
	12/05/96	NA	NA	< 50	< 50	< 300
	08/29/96	NA	NA	< 50	< 50	< 300
	06/10/96	NA	NA	< 50	< 50 (U6)	< 300 (U6, U16)
	03/07/96	NA	NA	< 50	110 (J32)	2,700 (J32)
	12/11/95	NA	NA	< 50	< 50	< 300
	09/11/95	NA	NA	< 50	< 50	< 1,300
	11/09/94	NA	NA	< 50	NA	NA
	11/02/92	NA	NA	NA	< 50	NA
DAEGW05	03/02/07	NA	NA	< 50	< 50 b UJ	< 300 b UJ
	03/14/06	NA	NA	< 50	< 50	< 300
	03/16/05	NA	NA	< 50	< 50	< 300
DUP0316053A	03/16/05	NA	NA	< 50	< 50	< 300
	03/11/04	NA	NA	< 50	< 50	< 300
	08/19/03	< 0.1	700	< 50	< 50	< 300
	03/13/03	NA	NA	< 50	< 50	< 300
	03/12/02	NA	NA	< 50	< 50	< 300
DUP0312023A	03/12/02	NA	NA	< 50	< 50	< 300
	05/17/01	NA	NA	< 50	< 50	< 300
	03/15/99	NA	NA	< 50	< 50	< 300
	01/14/98	NA	NA	< 50	< 50	< 300
	12/06/96	NA	NA	< 50	< 50	< 300
	08/29/96	NA	NA	< 50	< 50	< 300
	05/30/96	NA	NA	< 50	< 50 (U6)	< 300 (U6, U16)
	03/06/96	NA	NA	< 50	120 (J32)	2,800 (J32)
	12/11/95	NA	NA	< 50	< 50 (U6)	< 300 (U6)

Table A-7-2
Results of MBAS, Total Hardness, and TPH Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	MBAS	Total Hardness	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	E425.1	E130.2/ E310.1	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)
DAEGW05	09/12/95	NA	NA	< 50	< 50	< 1,300
	11/08/94	NA	NA	< 50	NA	NA
	11/02/92	NA	NA	NA	< 50	NA
DAEGW06	03/01/07	NA	NA	NA	< 50	< 300
	03/16/06	NA	NA	NA	< 50	< 300
	03/16/05	NA	NA	NA	< 50	< 300
	03/11/04	NA	NA	NA	< 50	< 300
	08/20/03	< 0.1 UJ	350	NA	< 50	< 300
	03/12/03	NA	NA	NA	< 50	< 300
	03/12/02	NA	NA	NA	< 50	< 300
	05/17/01	NA	NA	NA	< 50	< 300
DUP0517012A	05/17/01	NA	NA	NA	< 50	< 300
	02/15/99	NA	NA	< 50	< 50	< 300
	01/13/98	NA	NA	< 50	< 50	< 300
	12/06/96	NA	NA	< 50	< 50	< 300
	08/28/96	NA	NA	< 50	< 50	< 300
	05/30/96	NA	NA	< 50	< 50	< 300 (U16)
	03/06/96	NA	NA	< 50	< 50	680 (J32)
	12/11/95	NA	NA	< 50	< 50	< 300
	09/12/95	NA	NA	< 50	< 50	< 1,300
	04/05/95	NA	NA	< 10	NA	NA
DAEGW07	03/15/06	NA	NA	< 50	< 50	< 300
	03/18/05	NA	NA	< 50	< 50	< 300
	03/17/04	NA	NA	< 50	< 50	< 300
DUP0317041A	03/17/04	NA	NA	< 50	< 50	< 300
	03/19/03	NA	NA	< 50	< 50	< 300
	03/11/02	NA	NA	< 50	< 50	< 300
	05/18/99	NA	NA	< 50 U	< 50 U	< 300 U
	03/15/99	NA	NA	< 50	< 50	< 300
	04/15/98	NA	NA	< 50	< 50	< 300
	01/14/98	NA	NA	< 50	< 50	< 300
	12/12/97	NA	NA	< 50	< 50	1,500 (R32)
	02/13/97	NA	NA	< 50	< 50	< 300
	03/07/96	NA	NA	< 50	< 50	660 (J32)
	12/14/95	NA	NA	< 50	< 50	< 300
	04/04/95	NA	NA	< 10	NA	NA
DAEGW08	03/01/07	NA	NA	< 50	< 50	< 300
	03/14/06	NA	NA	< 50	< 50	< 300
	03/28/05	NA	NA	< 50	< 50	< 300
	03/17/04	NA	NA	< 50	< 50	< 300
	08/18/03	< 0.1	740	< 50	< 50	< 300
	03/19/03	NA	NA	< 50	< 50	< 300
	03/11/02	NA	NA	< 50	< 50	< 300
	05/16/01	NA	NA	< 50	< 50	< 300
	05/18/99	NA	NA	< 50	< 50	< 300
	02/16/99	NA	NA	< 50	< 50	< 300
	01/14/98	NA	NA	< 50	< 50	< 300
	12/06/96	NA	NA	< 50	< 50	< 300
	08/29/96	NA	NA	< 50	< 50	< 300
	06/10/96	NA	NA	< 50	< 50 (U6, U9)	< 300 (U6, U16)
	03/07/96	NA	NA	< 50	260 (J32)	5,000 (J32)
	12/14/95	NA	NA	< 50	< 50	< 300
	09/12/95	NA	NA	< 50	< 50	< 1,300
	04/03/95	NA	NA	11	NA	NA

Table A-7-2
Results of MBAS, Total Hardness, and TPH Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	MBAS	Total Hardness	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	E425.1	E130.2/ E310.1	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)
DAESP03	03/24/06	< 1	NA	NA	NA	NA
	03/08/06	NA	120	< 50	55 Y	< 300
DUP0308063A	03/08/06	NA	110	< 50	63 Y	< 300
DAESP03CL	03/08/06	0.05	107	< 50 U	58 J+	< 300 U
	03/22/05	< 0.1 R	95	< 50	< 50	< 300
DAEGW101	03/02/07	NA	NA	< 50	NA	NA
	03/16/06	0.11	780	< 50	65 HY	< 300
	05/26/05	0.14	780	< 50	< 50	< 300
	03/16/05	0.14	800	< 50	< 50	< 300
	08/12/04	NA	800	< 50	< 50	< 300
	05/27/04	< 0.1	800	< 50	< 50	< 300
	03/11/04	< 0.1	790	< 50	< 50	< 300
	06/05/03	0.4 J-	780	< 50	< 50	< 300
	03/13/03	< 0.1	750	< 50	< 50	< 300
DAEGW102	03/07/07	< 0.1 UJ	850	< 50	< 50	< 300
	03/16/06	< 0.1	1,300	< 50	< 50	< 300
	05/26/05	0.25	1600	< 50	< 50	< 300
	03/16/05	0.15	1,800	< 50	< 50	< 300
	12/15/04	< 0.1	300	< 50	< 50	< 300
	08/12/04	< 0.1	1,800	< 50	< 50	< 300
	05/27/04	< 0.1	1,900	< 50	< 50	< 300
	03/15/04	< 0.1	1,400	< 50	NA	NA
	12/04/03	< 0.1 UJ	1,500	< 50	< 50	< 300
	08/19/03	< 0.1	1,800	< 50	190 HY	< 300
	06/04/03	< 0.1 UJ	1,700	< 50	< 50	< 300
	03/12/03	< 0.1	1,600	< 50	< 50	< 300
	11/26/02	NA	NA	< 50	NA	NA
DAEGW103	03/01/07	< 0.1 b UJ	350	< 50	< 50	< 300
	03/14/06	< 0.1 UJ	210	< 50	< 50	< 300
	05/26/05	0.12	270	< 50	< 50	< 300
	03/17/05	0.15	270	< 50	< 50	< 300
DUP0317053A	03/17/05	0.17	270	< 50	< 50	< 300
DAEGW103CL	03/17/05	< 0.05 U UJ	341	< 50 U	< 50 U	< 300 U
	12/15/04	< 0.1	500	< 50	< 50	< 300
DUP1215042A	12/15/04	< 0.1	300	< 50	< 50	< 300
DAEGW103CL	12/15/04	< 0.1	300	< 50 U UJ	< 48 U	< 300 U
	08/11/04	< 0.1	300	< 50	< 50	< 300
DUP0811042B	08/11/04	< 0.1	290	< 50	< 50	< 300
DAEGW103CL	08/11/04	< 0.1	299	< 100	< 100 J-	< 400 UJ
	05/28/04	< 0.1	320	< 50	< 50	< 300
DUP0528041A	05/28/04	< 0.1	320	< 50	< 50	< 300
DAEGW103CL	05/28/04	NA	320	< 50	< 48	< 240
	03/10/04	< 0.1	300	< 50	< 50	< 300
DUP0310043B	03/10/04	< 0.1	310	< 50	< 50	< 300
DAEGW103CL	03/10/04	< 0.05	300	< 50	< 49	< 240
	12/04/03	< 0.1 UJ	290	< 50	< 50	< 300
DUP1204033A	12/04/03	< 0.1 UJ	290	< 50	< 50	< 300
DAEGW103CL	12/04/03	< 0.05	320	< 50	< 48 UJ	< 240 UJ
	08/19/03	< 0.1	300	< 50	54 HY	< 300
DUP0819033B	08/19/03	< 0.1	300	< 50	< 50	< 300
DAEGW103CL	08/19/03	< 0.05 UJ	300	< 50	< 50	< 250
	06/04/03	< 0.1	310	< 50	< 50	< 300
DUP0604033A	06/04/03	< 0.1	300	< 50	< 50	< 300
DAEGW103CL	06/04/03	< 0.4	270	< 50	< 50	< 250

Table A-7-2
Results of MBAS, Total Hardness, and TPH Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	MBAS	Total Hardness	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	E425.1	E130.2/ E310.1	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)
DAEGW103	03/13/03	< 0.1	280	< 50	< 50	< 300
DUP0313033A	03/13/03	< 0.1	300	< 50	< 50	< 300
DAEGW103CL	03/13/03	< 0.05	300	< 50	< 50	< 250
	11/25/02	NA	310	< 50	< 59	< 590
DAEGW104	03/02/07	< 0.1 b UJ	370	< 50	< 50 b UJ	< 300 b UJ
DUP0302071A	03/02/07	< 0.1 b UJ	330	< 50	< 50 b UJ	< 300 b UJ
DAEGW104CL	03/02/07	< 0.25	348	< 50	< 50	< 300
	03/16/06	< 0.1	260	< 50	54 HY	< 300
	05/26/05	0.12	290	< 50	< 50	< 300
DAEGW104CL	05/26/05	< 0.03 U UJ	339	< 50 U	64	< 300 U
DUP0526052A	05/26/05	0.14	340	< 50	< 50	< 300
	03/16/05	< 0.1	300	< 50	< 50	< 300
	12/15/04	< 0.1	310	< 50	< 50	< 300
	08/12/04	0.14	310	< 50	< 50	< 300
	05/27/04	< 0.1	320	< 50	< 50	< 300
	03/15/04	< 0.1	300	< 50	NA	NA
	12/04/03	< 0.1 UJ	310	< 50	< 50	< 300
	08/19/03	< 0.1	290	< 50	< 50	< 300
DUP0819033A	08/19/03	< 0.1	300	< 50	< 50	< 300
	06/04/03	< 0.1	290	< 50	< 50	< 300
	03/12/03	< 0.1	360	< 50	< 50	< 300
	11/25/02	NA	560	< 50	< 50	< 500

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical method used during previous quarters are identified in the respective quarterly reports.
mg/L - milligrams per liter
µg/L - micrograms per liter
NA - Not analyzed
MBAS - Methylene Blue Active Substances
TPH - Total petroleum hydrocarbons
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which the were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-7-3
Results of SVOC, PAH, OCP, PCB, Chlorinated Herbicide, and VOC Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	SVOCs		PAHs			All OCPs and PCBs	All Chlorinated Herbicides	VOCs								
		bis(2-Ethylhexyl)-phthalate	All Other SVOCs	Benzo(a)-pyrene	Benzo(g,h,i)-perylene	All Other PAHs			1,2-Dichloro-ethane	Benzene	Bromo-dichloro-methane	Chloro-form	Chloro-methane	Dibromo-chloro-methane	MTBE	Toluene	All Other VOCs
	Analytical Method[1]	SW8270/ SW8270C	SW8270/ SW8270C	SW8270/ SW8270C/ SW8310	SW8270/ SW8270C/ SW8310	SW8270/ SW8270C/ SW8310	SW8081/ SW8081A/ SW8082/ SW8270	SW8270/ SW8151/ SW8151A	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		--	--	**0.0044**	--	--	--	--	**0.38**	--	**0.56**	**80**	--	**0.4**	--	**150**	--
DAEGW03	03/02/07	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	0.1 J	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/14/06	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	0.3 J	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/16/05	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	ND
	03/11/04	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DUP0311043A	03/11/04	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DAEGW03CL	03/11/04	NA	NA	< 0.05 R	< 0.1 UJ	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/20/03	NA	NA	< 0.09	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/13/03	NA	NA	< 0.09	< 0.19	ND	ND	NA	< 0.5	0.2 J	< 0.5	< 0.5	< 1	< 0.5	3.2	< 0.5	ND
	03/12/02	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	05/17/01	NA	NA	< 0.1 UJ	< 0.19 UJ	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1 UJ	< 0.5	< 0.5 UJ	< 0.5	ND
	02/15/99	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	01/13/98	< 10	ND	NA	NA	ND	ND (U6, U16)	ND (U12, U16)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	12/05/96	10 (J30)	ND	NA	NA	ND	ND (R12)	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	08/28/96	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	05/30/96	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	0.7	< 0.5	NA	< 0.5	ND
	03/05/96	ND	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	**2.3**	2.4	< 0.5	**1**	NA	< 0.5	ND
	12/11/95	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	09/11/95	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	11/08/94	3.69	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
	08/27/92	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DAEGW04	03/07/07	NA	NA	< 0.1	< 0.19	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/14/06	NA	NA	< 0.09	< 0.19	ND	NA	NA	< 0.5	0.2 J	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/16/05	NA	NA	< 0.1	< 0.19	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	ND
	03/17/04	NA	NA	< 0.1	< 0.19	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	08/20/03	NA	NA	< 0.1	< 0.19	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/13/03	NA	ND	< 0.09	< 0.19	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/12/02	NA	NA	< 0.1	< 0.19	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	05/17/01	NA	NA	< 0.1 UJ	< 0.19 UJ	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	02/15/99	< 10	ND	NA	NA	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	01/13/98	< 10	ND	NA	NA	ND	ND (U6)	ND (U16)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	12/05/96	< 10	ND	NA	NA	ND	ND (R6, R12)	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	08/29/96	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	06/10/96	18 (J30, J33)	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	0.6 (J33)	< 0.5	NA	< 0.5	ND
	03/07/96	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	12/11/95	< 10	ND	NA	NA	ND	ND	ND (U9, U12)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	09/11/95	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	11/09/94	8.95	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
	11/02/92	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DAEGW05	03/02/07	NA	NA	< 0.1	< 0.21	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/14/06	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/16/05	NA	NA	< 0.1	< 0.2	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	ND
	03/16/05	NA	NA	< 0.1	< 0.2	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	ND
	03/11/04	NA	NA	< 0.1	< 0.2	ND	ND	NA	< 0.5	0.2 J	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	08/19/03	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/13/03	NA	ND	< 0.09	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/12/02	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DUP0312023A	03/12/02	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND

Table A-7-3
Results of SVOC, PAH, OCP, PCB, Chlorinated Herbicide, and VOC Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	SVOCs		PAHs			All OCPs and PCBs	All Chlorinated Herbicides	VOCs								
		bis(2-Ethylhexyl)-phthalate	All Other SVOCs	Benzo(a)-pyrene	Benzo(g,h,i)-perylene	All Other PAHs			1,2-Dichloro-ethane	Benzene	Bromo-dichloro-methane	Chloro-form	Chloro-methane	Dibromo-chloro-methane	MTBE	Toluene	All Other VOCs
	Analytical Method[1]	SW8270/ SW8270C	SW8270/ SW8270C	SW8270/ SW8270C/ SW8310	SW8270/ SW8270C/ SW8310	SW8270/ SW8270C/ SW8310	SW8081/ SW8081A/ SW8082/ SW8270	SW8270/ SW8151/ SW8151A	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		--	--	**0.0044**	--	--	--	--	**0.38**	--	**0.56**	**80**	--	**0.4**	--	**150**	--
DAEGW05	05/17/01	NA	NA	< 0.1 UJ	< 0.19 UJ	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/15/99	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	NA	< 0.5	ND
	01/14/98	< 10	ND	NA	NA	ND	ND (U6, U16, R, R6, R12)	ND (U16)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	12/06/96	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	08/29/96	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	05/30/96	13 (J30)	ND	NA	NA	ND	ND	ND (U15)	0.6	< 0.5	< 0.5	< 0.5	0.8	< 0.5	NA	< 0.5	ND
	03/06/96	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	12/11/95	< 10	ND	NA	NA	ND	ND	ND (U9, U12)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	09/12/95	11 (J30)	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	11/08/94	10.1	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
	11/02/92	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DAEGW06	03/01/07	NA	NA	< 0.1	< 0.19	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/16/06	NA	NA	< 0.1	< 0.19	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/16/05	NA	NA	< 0.1	< 0.2	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	ND
	03/11/04	NA	NA	< 0.1	< 0.19	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	08/20/03	NA	NA	< 0.1	< 0.19	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/12/03	NA	ND	< 0.09	< 0.19	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/12/02	NA	NA	< 0.1	< 0.19	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	05/17/01	NA	NA	< 0.1 UJ	< 0.19 UJ	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1 UJ	< 0.5	< 0.5 UJ	< 0.5	ND
DUP0517012A	05/17/01	NA	NA	< 0.1	< 0.19	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	NA	< 0.5	ND
	02/15/99	< 10	ND	NA	NA	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	01/13/98	< 10	ND	NA	NA	ND	ND (U6, U16)	ND (U16)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	12/06/96	< 10	ND	NA	NA	ND	ND (R12)	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	08/28/96	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	0.6	ND
	05/30/96	< 10	ND	NA	NA	ND	ND	ND (U15)	0.6	< 0.5	< 0.5	< 0.5	1	< 0.5	NA	11	ND
	03/06/96	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	12/11/95	< 10	ND	NA	NA	ND	ND	ND (U9, U12)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	09/12/95	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 3.4 (U2)	ND
	04/05/95	< 20.7	ND	NA	NA	NA	NA	NA	< 0.5	NA	NA	NA	NA	NA	NA	NA	ND
DAEGW07	03/15/06	NA	NA	< 0.09	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/18/05	< 9.8	ND	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	ND
	03/17/04	< 9.8	ND	< 0.09	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DUP0317041A	03/17/04	< 9.8	ND	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/19/03	< 9.8	ND	< 0.1	< 0.2	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/11/02	< 9.5	ND	< 0.1	< 0.2	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	05/18/99	< 10	ND	NA	NA	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	03/15/99	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	NA	< 0.5	ND
	04/15/98	< 10	ND	NA	NA	ND	ND	ND (U16)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	01/14/98	< 10	ND	NA	NA	ND	ND (U6, U16)	ND (U16)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	12/12/97	20 (J30)	ND	NA	NA	ND (R12)	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	02/13/97	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	03/07/96	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	12/14/95	< 10	ND	NA	NA	ND	ND	ND (U9, U12)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	04/04/95	53.4	ND	NA	NA	NA	NA	NA	< 0.5	NA	NA	NA	NA	NA	NA	NA	ND

Table A-7-3
Results of SVOC, PAH, OCP, PCB, Chlorinated Herbicide, and VOC Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	SVOCs		PAHs			All OCPs and PCBs	All Chlorinated Herbicides	VOCs								
		bis(2-Ethylhexyl)-phthalate	All Other SVOCs	Benzo(a)-pyrene	Benzo(g,h,i)-perylene	All Other PAHs			1,2-Dichloro-ethane	Benzene	Bromo-dichloro-methane	Chloro-form	Chloro-methane	Dibromo-chloro-methane	MTBE	Toluene	All Other VOCs
	Analytical Method[1]	SW8270/ SW8270C	SW8270/ SW8270C	SW8270/ SW8270C/ SW8310	SW8270/ SW8270C/ SW8310	SW8270/ SW8270C/ SW8310	SW8081/ SW8081A/ SW8082/ SW8270	SW8270/ SW8151/ SW8151A	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		--	--	**0.0044**	--	--	--	--	**0.38**	--	**0.56**	**80**	--	**0.4**	--	**150**	--
DAEGW08	03/01/07	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/14/06	NA	NA	< 0.09	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/28/05	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	ND
	03/17/04	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	08/18/03	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/19/03	NA	ND	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/11/02	NA	NA	0.12	0.2	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	05/16/01	NA	NA	< 0.1 UJ	< 0.19 UJ	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5 UJ	< 0.5	ND
	02/16/99	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	01/14/98	< 10	ND	NA	NA	ND	ND (U6, U16)	ND (U16)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	12/06/96	< 10	ND	NA	NA	ND	ND (R6, R12)	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	08/29/96	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	06/10/96	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	0.7	< 0.5	NA	1.4	ND
	03/07/96	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	12/14/95	< 10	ND	NA	NA	ND	ND	ND (U9, U12)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	09/12/95	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	04/03/95	< 20.8	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
DAEGW101	03/02/07	NA	NA	< 0.12	< 0.24	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/16/06	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	05/26/05	NA	NA	< 0.1	< 0.2	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/16/05	NA	NA	< 0.09	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	ND
	08/12/04	NA	NA	< 0.1	< 0.2	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1 UJ	< 0.5	< 0.5	< 0.5	ND
	05/27/04	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/11/04	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	06/05/03	NA	NA	< 0.09	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/13/03	< 9.4	ND	< 9.4	< 9.4	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DAEGW102	03/07/07	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/16/06	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	05/26/05	NA	NA	< 0.1	< 0.2	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/16/05	NA	NA	< 0.1	< 0.2	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	ND
	12/15/04	NA	NA	< 0.09	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	08/12/04	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1 UJ	< 0.5	< 0.5	< 0.5	ND
	05/27/04	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/15/04	NA	NA	< 0.1	< 0.2	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	12/04/03	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	08/19/03	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	06/04/03	NA	NA	< 0.09	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/12/03	< 9.6	ND	< 9.6	< 9.6	ND	NA	NA	< 0.5	0.3 J	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DAEGW103	03/01/07	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/14/06	NA	NA	< 0.09	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	05/26/05	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/17/05	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	ND
DUP0317053A	03/17/05	NA	NA	< 0.1	< 0.2	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	ND
DAEGW103CL	03/17/05	NA	NA	< 0.2 U	< 0.2 U	ND	ND	ND	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U UJ	< 4.5 U	< 2 U	< 0.5 U	ND
	12/15/04	NA	NA	< 0.09	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DUP1215042A	12/15/04	NA	NA	< 0.09	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DAEGW103CL	12/15/04	NA	NA	< 0.2 U UJ	< 0.2 U	ND	ND	ND	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 0.5 U	< 2 U	< 0.5 U	ND
	08/11/04	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1 UJ	< 0.5	< 0.5	< 0.5	ND
DUP0811042B	08/11/04	NA	NA	< 0.09	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1 UJ	< 0.5	< 0.5	< 0.5	ND
DAEGW103CL	08/11/04	NA	NA	< 0.5	< 0.5	ND	ND	ND	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	ND

Table A-7-3
Results of SVOC, PAH, OCP, PCB, Chlorinated Herbicide, and VOC Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	SVOCs		PAHs			All OCPs and PCBs	All Chlorinated Herbicides	VOCs								
		bis(2-Ethylhexyl)-phthalate	All Other SVOCs	Benzo(a)-pyrene	Benzo(g,h,i)-perylene	All Other PAHs			1,2-Dichloro-ethane	Benzene	Bromo-dichloro-methane	Chloro-form	Chloro-methane	Dibromo-chloro-methane	MTBE	Toluene	All Other VOCs
	Analytical Method[1]	SW8270/ SW8270C	SW8270/ SW8270C	SW8270/ SW8270C/ SW8310	SW8270/ SW8270C/ SW8310	SW8270/ SW8270C/ SW8310	SW8081/ SW8081A/ SW8082/ SW8270	SW8270/ SW8151/ SW8151A	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		--	--	**0.0044**	--	--	--	--	**0.38**	--	**0.56**	**80**	--	**0.4**	--	**150**	--
DAEGW103	05/28/04	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DUP0528041A	05/28/04	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DAEGW103CL	05/28/04	NA	NA	< 0.048	< 0.095	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/10/04	NA	NA	< 0.1	< 0.2	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DUP0310043B	03/10/04	NA	NA	< 0.1	< 0.2	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DAEGW103CL	03/10/04	NA	NA	< 0.05 R	< 0.1	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/03	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DUP1204033A	12/04/03	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DAEGW103CL	12/04/03	NA	NA	< 0.049 UJ	< 0.097 UJ	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/19/03	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DUP0819033B	08/19/03	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DAEGW103CL	08/19/03	NA	NA	< 0.049	< 0.097	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/04/03	NA	NA	< 0.09	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DUP0604033A	06/04/03	NA	NA	< 0.09	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	06/04/03	NA	NA	< 0.048	< 0.095	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/13/03	< 9.5	ND	< 9.5	< 9.5	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DUP0313033A	03/13/03	< 9.5	ND	< 9.5	< 9.5	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DAEGW103CL	03/13/03	< 10	ND	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.55	ND
	11/25/02	< 10	ND	< 2	< 2	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 1	7.9	< 0.5	< 5	< 0.5	ND
DAEGW104	03/02/07	NA	NA	< 0.1 UJ	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DUP0302071A	03/02/07	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DAEGW104CL	03/02/07	NA	NA	< 0.1	< 0.2	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 2	< 0.5	ND
	03/16/06	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	05/26/05	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DUP0526052A	05/26/05	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DAEGW104CL	05/26/05	NA	NA	NA	NA	ND	ND	ND	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 0.5 U	< 2 U	< 0.5 U	ND
	03/16/05	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	ND
	12/15/04	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	08/12/04	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	05/27/04	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/15/04	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	12/04/03	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	08/19/03	NA	NA	< 0.09	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DUP0819033A	08/19/03	NA	NA	< 0.09	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	06/04/03	NA	NA	< 0.09	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/12/03	< 9.5	ND	< 9.5	< 9.5	ND	NA	NA	< 0.5	0.1 J	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	11/25/02	< 10	ND	< 2	< 2	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 1	< 0.5	< 5	< 0.5	ND
DAESP03	03/08/06	NA	NA	< 0.1 UJ	< 0.2	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DUP0308063A	03/08/06	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DAESP03CL	03/08/06	NA	NA	< 0.2 U	< 0.2 U	ND	ND	NA	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 0.5 U	< 2 U	< 0.5 U	ND
	03/22/05	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	ND

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Cleanup levels taken from Table 3-1 of the *Draft Landfill E Feasibility Study Report*, (CH2MHill, 2005).
µg/L - micrograms per liter
NA - Not analyzed
ND - Not detected
PAHs - Polycyclic aromatic hydrocarbons
OCPs - Organochlorine pesticides
PCBs - Polychlorinated biphenyls
VOCs - Volatile organic compounds
SVOCs - Semi-volatile organic compounds
MTBE - Methyl tert-butyl ether
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-7-4
Results of Dissolved Metals Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [5]		--	**6**	**10**	**1,000**	**4**	**1.1**	--	**11**	--	**11.8**	--	--	**3.2**	--	--	**0.01**	--	**158**	--	**5**	**4.1**	--	**1.7**	--	**106**	--
DAEGW03	03/02/07	< 100	< 1	< 5	88	< 2	**4.8 J**	68,000	< 10	< 10	< 1	NA	< 100	< 3	140,000	410	NA	NA	< 20	890 J	< 5	< 1	130,000	< 1	13	< 20 UJ	1,050 J+
	03/14/06	< 100	1.4	< 5	100	< 2	**20**	65,000	< 10	< 10	2.6	NA	170	< 3	130,000	2,900	NA	NA	35	1,500	< 5	< 1	140,000	< 1	< 10	110	1,090
	03/16/05	< 100	< 1	< 5	71	< 2	**1.6**	58,000	< 10	< 10	2.1	NA	140	< 3	140,000	91	NA	NA	< 20	1,300	< 5	< 1	130,000	< 1	< 10	< 20	920
	03/11/04	< 100	< 1	< 5	67	< 2	**1.8**	68,000	**13**	< 10	1.6	NA	200	< 3	140,000	49	NA	NA	< 20	< 500	< 5	< 1 UJ	140,000	< 1	< 10	< 20	1,010
DUP0311043A	03/11/04	< 100	< 1	< 5	69	< 2	**2.6**	67,000	**12**	< 10	1.7	NA	220	< 3	140,000	61	NA	NA	< 20	500	< 5	< 1 UJ	140,000	< 1	< 10	< 20	950
DAEGW03CL	03/11/04	< 100	< 5	< 5	62	< 1	**2.8**	68,000	10	< 7	< 10	NA	< 500	< 3	140,000	46	NA	NA	< 10	< 1,000	< 5	< 1	130,000	< 2	< 10	< 20	940
	08/20/03	< 100	< 1	< 5	60	< 2	< 1	67,000	**14**	< 10	< 1	NA	580	< 3	140,000	37	NA	< 5	< 20	600	< 5	< 1 UJ	140,000	< 1	< 10	< 20 UJ	1,130
	03/13/03	< 100	1.9	< 1	75	< 1	**1.8**	67,000	**17**	< 1	1.6	NA	170 J	< 3	140,000	24	NA	NA	8.7	710	< 5	< 1 UJ	150,000	< 1	< 10	< 10	1180
	12/04/02	< 100	< 1	< 1	76	< 1	< 1	67,000	**17**	< 1	2.1	NA	210	< 3	130,000	24	NA	NA	9.8	650	< 5	< 1 UJ	140,000	**2.3**	< 10	< 10	1,140
	09/03/02	< 100	< 1	< 1	400	< 1	< 1	78,000	11 J	< 1	1.6	NA	100	< 3	160,000	< 10	NA	NA	7.6	930	< 5	< 1 UJ	170,000	< 1	< 10	69	1,190
	06/04/02	< 100	< 1	1.2	490	< 1	**1.4**	77,000	**16**	< 1	2.4	NA	310	< 3	170,000	76	NA	NA	12	1,500	< 5	< 1	170,000	< 1	11	100	1,360
	03/12/02	< 100	1	< 1	370	< 1	**2.4**	86,000	**19**	< 1	1.5	NA	190	< 3	180,000	< 10	NA	NA	9.3	640	< 5	< 1 UJ	170,000	< 1	< 10	29	1,180
	12/03/01	< 100	1.8	1	550	< 1	**1.5**	84,000	**22 J**	< 1	2.8	NA	< 100	< 3	180,000	<10	NA	NA	12 J	1,000	< 5	< 1	150,000	< 1	< 10	**230**	1,230
	08/28/01	< 100	1.3	1.4	230	< 1	**1.5**	85,000	**19**	< 1	3.1	NA	420	< 3	180,000	< 10	NA	NA	7.4	1,200	< 5	< 1	150,000	< 1	< 10	49	1,280
	05/17/01	< 100	1.1 J	< 1 UJ	380 J	< 1 UJ	**1.9 J**	84,000 J	**23 J**	< 1 UJ	3.8 J	NA	200 J	< 3 UJ	170,000	< 10 UJ	NA	NA	10 J	690 J	< 5 UJ	< 1 UJ	160,000	< 1 UJ	< 10 UJ	79 J	1,150
	05/17/99	< 100	< 5	< 5	77	< 4	**11.2**	78,100	**24.3**	< 10	< 10	NA	< 100	< 3	154,000	92.3	NA	NA	< 20	< 5,000	< 5	< 2	167,000	< 2	< 10	54.8	1,320
	02/15/99	< 100	< 5	< 5	78.3	< 4	**9.5**	81,100	**26.4**	< 10	**22**	NA	< 100	< 3	168,000	45.5	NA	NA	< 20	< 5,000	< 5	< 2	166,000	< 2	< 10	61.8	1,770
	11/16/98	< 100	< 5	< 5	76.7	< 4	**8.4**	80,800	**30**	< 10	< 10	NA	< 100	5.7	169,000	32.1	NA	NA	< 20	< 5,000	**5.4**	< 2	177,000	2.4	< 10	48.2	1,350
	08/14/98	< 100	< 5	< 5	86.2	< 4	**10.3**	83,700	**24.9**	< 10	**12.9**	NA	< 100	< 3	167,000	31.2	NA	NA	< 20	< 5,000	< 5	< 2	202,000	< 2	< 10	43	1,360
	04/14/98	< 100	< 5	< 5	87	< 4	**11**	85,000	**22**	< 10	**17**	NA	< 100	< 3	180,000	77	NA	NA	< 20	< 5,000	< 5	< 2	190,000	< 2	< 10	46	1,200
	01/13/98	< 100	< 5	< 5	80	< 4	**11**	80,000	**20**	< 10	< 10	NA	< 100	3	170,000	140	NA	NA	< 20	< 5,000	**11**	< 2	140,000	< 2	< 10	60	1,400
	11/10/97	< 100	< 5	< 5	70	< 4	< 2	75,000	**20**	< 10	< 10	NA	< 100	< 3	160,000	60	NA	NA	< 20	< 5,000	**10**	< 2	150,000	< 2	< 10	< 20	1,400 (J29)
	08/11/97	< 100	< 5	6	80	< 4	< 2	77,000	**20**	< 10	< 10	NA	< 100	< 3	160,000	50	NA	NA	< 20	< 5,000	**20**	< 2	180,000	< 2	< 10	< 20	1,400
	05/13/97	< 100	< 20	6	80	< 4	< 2	77,000	**20**	< 10	< 10	NA	< 100	< 3	160,000	20	NA	NA	< 20	< 5,000	**19**	< 2	180,000	< 2	< 10	< 20	1,400
	02/12/97	< 100	< 5	< 5	80	< 4	< 2	73,000	**20**	< 10	< 10	NA	< 100	< 3	160,000	140	NA	NA	< 20	< 5,000	**10**	< 2	180,000	< 2	< 10	< 20	1,300 (J29)
	12/05/96	< 100	< 5	8	80	< 4	< 2	73,000	**20**	< 10	< 10	NA	< 100	< 3	150,000	20	< 0.2	NA	< 20	< 5,000	**23**	< 2	180,000	< 2	10	< 20	NA
	08/28/96	< 100	< 5	< 5	90	< 2	< 0.5	82,000	**16**	< 10	1	NA	< 100	3	170,000	40	< 0.2	NA	13	< 5,000	**22**	< 0.5	200,000	< 2	< 10	50	NA
	05/30/96	< 100	< 5	< 5	90	< 2	< 0.5	81,000	**15**	< 10	2	NA	< 100	1	170,000	40	< 0.2	NA	12	< 5,000	5	< 0.5	220,000	< 2	< 10	20	NA
	03/05/96	< 100 U	< 5 U	< 5 U	75	< 2 U	< 0.5 U	72,400	**20**	< 10 U	2	NA	< 100 U	< 1 U	159,000	62	< 0.2 U	NA	11	< 5,000 U	< 5 U	< 0.5 U	214,000	< 2 U	10	< 20 U	NA
	12/11/95	< 100	< 5	< 5	74	< 2	< 0.5	72,300	**22**	< 10	2	NA	< 100	< 1	158,000	42	< 0.2	NA	15	< 5,000	< 5	< 0.5	21,000	< 2	< 10	33	NA
	09/11/95	< 200 U	< 60 U	< 5 U	80	< 2 U	< 2 U	72,000	**21**	< 20 U	< 10 U	NA	< 100 U	< 3 U	170,000	36	< 0.2 U	< 20	< 20 U	< 500 U	**10**	< 5 U	180,000	< 5 U	< 10 U	< 20 U	NA
DAEGW04	03/07/07	< 100	< 1	< 5	14	< 2	< 1	21,000	< 10	< 10	< 1	NA	< 100	< 3	61,000	29	NA	NA	**3,200**	13,000 J	< 5	< 1	55,000	< 1	< 10	< 20	450
	03/14/06	< 100	< 1	< 5	27	< 2	< 1	38,000	**12**	< 10	2.3	NA	110	< 3	98,000	27	NA	NA	**790**	5,100	< 5	< 1	72,000	< 1	< 10	< 20	810
	03/16/05	< 100	< 1	< 5	47	< 2	< 1	36,000	< 10	50	3.1	NA	110	< 3	93,000	1,600	NA	NA	**490**	4,000	< 5	< 1	67,000	< 1	< 10	< 20	620
	03/17/04	< 100	< 1	< 5	37	< 2	< 1	47,000	**31**	< 10	1.7	NA	130	< 3	100,000	< 10	NA	NA	**3,600 J+**	14,000	< 5	< 1 UJ	81,000	< 1	< 10	< 20	770
	08/20/03	< 100	1	< 5	30	< 2	< 1	46,000	**13**	< 10	3.3	NA	480	< 3	93,000	35	NA	< 5	**5,100**	10,000	< 5	< 1 UJ	68,000	< 1	< 10	< 20 UJ	780
	03/13/03	< 100	1.3	< 1	31	< 1	< 1	45,000	11	3	1.5	NA	140 J	< 3	91,000	54	NA	NA	**4,000**	13,000	< 5	< 1 UJ	67,000	< 1	< 10	< 10	710
	12/04/02	< 100	< 1	< 1	27	< 1	< 1	41,000	4.9	2.6	< 1	NA	150	< 3	74,000	19	NA	NA	**3,800**	4,300	< 5	< 1 UJ	53,000	< 1	< 10	< 10	680
	09/03/02	< 100	1.8	< 1	570	< 1	< 1	47,000	5 J	1.7	1.2	NA	< 100	< 3	85,000	18	NA	NA	**2,100**	1,800	< 5	< 1 UJ	64,000	< 1	< 10	**260**	610
	06/04/02	< 100	1	< 1	460	< 1	< 1	50,000	**19**	1.9	2	NA	190	< 3	91,000	19	NA	NA	**520**	3,800	< 5	< 1	65,000	< 1	< 10	**170**	660
	03/12/02	< 100	< 1	< 1	480	< 1	< 1	52,000	**15**	2	1.7	NA	150	< 3	97,000	23	NA	NA	**510**	10,000	< 5	< 1 UJ	68,000	< 1	< 10	**150**	710
	12/03/01	< 100	< 1	< 1	300	< 1	< 1	51,000	5.9	2.9	2.7	NA	< 100	< 3	91,000	16	NA	NA	**4,100 J**	14,000	< 5	1.2	76,000	< 1	< 10	45	690
DUP1203011B	12/03/01	< 100	1.5	< 1	600	< 1	< 1	54,000	5.8	3	1.9	NA	< 100	< 3	93,000	17	NA	NA	**4,100 J**	13,000	< 5	<1	82,000	< 1	< 10	**200**	710
	08/29/01	< 100	1.4	< 1	310 J+	< 1	< 1	46,000	**18**	1.8	1.8	NA	130	< 3	88,000	12	NA	NA	**2,200**	8,500	< 5	< 1 UJ	75,000	< 1	< 10	51	590
	05/17/01	< 100	1.5 J	< 1 UJ	430 J	<1 UJ	<1 UJ	43,000 J	**14 J**	2.4 J	1.3 J	NA	190 J	<3 UJ	84,000	21 J	NA	NA	**1,300 J**	6,300 J	<5 UJ	<1 UJ	70,000	< 1 UJ	<10 UJ	**140 J**	650
	05/17/99	< 100	< 5	< 5	46.1	< 4	< 2	43,300	**15.5**	< 10	< 10	NA	184	**3.7**	76,700	22.4	NA	NA	**893**	5,220	< 5	< 2	56,300	< 2	< 10	58	715
	02/15/99	< 100	< 5	< 5	28	< 4	< 2	34,000	**14.8**	< 10	< 10	NA	103	< 3	57,600	26.8	NA	NA	**1,270**	14,100	< 5	< 2	51,600	< 2	< 10	21.7	653
	11/16/98	< 100	< 5	< 5	22.9	< 4	< 2	27,300	**23.4**	< 10	**19.5**	NA	149	**4.1**	45,400	25.8	NA	NA	**822**	< 5,000	< 5	< 2	40,700	< 2	< 10	25.4	409
	08/14/98	< 100	< 5	< 5	29.7	< 4	< 2	29,900	**11.6**	31.4	< 10	NA	< 100	3.1	51,800	606	NA	NA	**2,450**	10,000	< 5	< 2	51,400	< 2	< 10	26.1	398

Table A-7-4
Results of Dissolved Metals Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [5]		**--**	**6**	**10**	**1,000**	**4**	**1.1**	**--**	**11**	**--**	**11.8**	**--**	**--**	**3.2**	**--**	**--**	**0.01**	**--**	**158**	**--**	**5**	**4.1**	**--**	**1.7**	**--**	**106**	**--**
DAEGW04	04/14/98	< 100	< 5	< 5	41	< 4	< 2	34,000	**20**	< 10	< 10	NA	< 100	< 3	70,000	17	NA	NA	**350**	< 5,000	< 5	< 2	53,000	< 2	< 10	< 20	420
	01/13/98	< 100	< 5	< 5	30	< 4	< 2	30,000	10	< 10	< 10	NA	< 100	< 3	58,000	10	NA	NA	**420**	9,000	< 5	< 2	51,000	< 2 (U9)	< 10	< 20	490
	11/10/97	< 100	< 5	< 5	20	< 4	< 2	23,000	**20**	< 10	< 10	NA	< 100	< 3	42,000	10	NA	NA	**1,700**	14,000	< 5	< 2	48,000	< 2 (U9)	< 10	< 20	< 440 (U1, U29)
	08/11/97	< 100	< 5	< 5	10	< 4	< 2	15,000	10	< 10	< 10	NA	< 100	< 3	19,000	10	NA	NA	**790**	13,000	< 5	< 2	28,000	< 2 (U9)	< 10	< 20	220
	05/13/97	< 100	< 5	< 5	20	< 4	< 2	27,000	10	< 10	< 10	NA	< 100	< 3	52,000	10	NA	NA	**270**	5,000	**9 (J23)**	< 2	48,000	< 2 (U9)	< 10	< 20	450
	02/12/97	100	< 5	< 5	30	< 4	< 2	31,000	10	< 10	< 10	NA	< 100	< 3	64,000	10	NA	NA	**260**	< 5,000	< 5	< 2	54,000	< 2 (U9)	< 10	< 20	490 (J29)
	12/05/96	< 100	< 5	< 5	30	< 4	< 2	30,000	**20**	< 10	< 10	NA	< 100	3	60,000	20	< 0.2	NA	**460**	9,000	**9**	< 2	52,000	< 2	< 10	< 20	NA
	08/29/96	< 100	< 5	< 5	30	< 2	< 0.5	33,000	11	< 10	1	NA	< 100	2	68,000	30	< 0.2	NA	**420**	7,000	**6**	< 0.5	55,000	< 2	< 10	< 20	NA
	06/10/96	< 100	< 5	< 5	30	< 2	< 0.5	32,000	**14**	< 10	1	NA	< 100	2	62,000	40	< 0.2	NA	**730**	7,000	< 5	< 0.5	58,000	< 2	< 10	< 20	NA
	03/07/96	< 100 U	< 5 U	< 5 U	27	< 2 U	< 0.5 U	32,600	**12**	< 10 U	2	NA	< 100 U	< 1 U	63,900	25	< 0.2 U	NA	**956**	9,390	< 5 U	< 0.5 U	51,000	< 2 U	< 10 U	< 20 U	NA
	12/11/95	< 100	< 5	< 5	19	< 2	< 0.5	22,300	**16**	< 10	1	NA	< 100	< 1	44,100	22	< 0.2	NA	**491**	6,180	< 5	< 0.5	44,000	< 2	< 10	< 20	NA
	09/11/95	< 200 U	< 60 U	< 5 U	35	< 2 U	< 2 U	26,000	**130**	< 20 U	**13**	NA	2,600	< 3 U	57,000	76	< 0.2 U	< 20	**340**	1,500	< 5 U	< 5 U	47,000	< 5 U	< 10 U	< 20 U	NA
DAEGW05	03/02/07	< 100	< 1	< 5	70	< 2	< 1 UJ	67,000	11	13	< 1	NA	< 100	< 3	96,000	160	NA	NA	**1,000**	1,100 J	< 5	< 1	83,000	< 1	10	< 20 UJ	800 J+
	03/14/06	< 100	< 1	< 5	63	< 2	< 1	66,000	**14**	< 10	2.2	NA	190	< 3	100,000	20	NA	NA	100	790	< 5	< 1	84,000	< 1	< 10	< 20	210
	03/16/05	< 100	< 1	< 5	73	< 2	< 1	58,000	**17**	< 10	1.9	NA	210	< 3	95,000	14	NA	NA	72	800	< 5	< 1	74,000	< 1	< 10	< 20	910
DUP0316053A	03/06/05	< 100	< 1	< 5	70	< 2	< 1	64,000	**19**	< 10	2.3	NA	230	< 3	120,000	13	NA	NA	69	900	< 5	< 1	83,000	< 1	< 10	< 20	680
	03/11/04	< 100	< 1	< 5	68	< 2	< 1	77,000	< 10	< 10	1.6	NA	240	< 3	120,000	10	NA	NA	40	710	< 5	< 1 UJ	86,000	< 1	< 10	< 20	770
	08/19/03	< 100	1.1	< 5	69	< 2	< 1	74,000	11	< 10	1.1	NA	430	< 3	120,000	11	NA	< 5	33	550	< 5	< 1 UJ	81,000	< 1	< 10	< 20 UJ	< 10
	03/13/03	< 100	< 1	< 1	68	< 1	< 1	71,000	**12**	< 1	1	NA	190 J	< 3	110,000	11	NA	NA	37	700	< 5	< 1 UJ	82,000	< 1	< 10	< 10	910
	12/04/02	< 100	< 1	< 1	67	< 1	< 1	73,000	**15**	< 1	1.1	NA	220	< 3	110,000	< 10	NA	NA	43	520	< 5	< 1 UJ	78,000	< 1	< 10	< 10	930
	09/03/02	< 100	< 1	< 1	380	< 1	< 1	82,000	8.5 J	< 1	1.5	NA	110	< 3	130,000	10	NA	NA	50	760	< 5	< 1 UJ	89,000	< 1	< 10	**110**	930
	06/04/02	< 100	1.3	< 1	420	< 1	< 1	82,000	**16**	< 1	1.7	NA	330	< 3	130,000	12	NA	NA	49	960	< 5	< 1	91,000	< 1	< 10	**140**	1,040
	03/12/02	< 100	1.1	< 1	360	< 1	< 1	91,000	6.5	< 1	2.2	NA	220	< 3	150,000	11	NA	NA	48	910	< 5	< 1 UJ	100,000	< 1	< 10	31	950
DUP0312023A	03/12/02	< 100	< 1	< 1	190	< 1	< 1	86,000	7	< 1	2.1	NA	210	< 3	140,000	11	NA	NA	49	850	< 5	< 1 UJ	96,000	< 1	< 10	13	980
	12/03/01	< 100	< 1	< 1	730	< 1	< 1	99,000	5.6	< 1	2.7	NA	< 100	< 3	82,000	13	NA	NA	27 J	1,400	< 5	< 1	100,000	< 1	< 10	**250**	1,060
	08/28/01	< 100	< 1	1.1	330	< 1	< 1	85,000	7.8	< 1	3.5	NA	440	< 3	130,000	< 10	NA	NA	33	720	< 5	< 1	89,000	< 1	< 10	61	1,010
	05/17/01	< 100	1.6 J	< 1 UJ	380 J	< 1 UJ	< 1 UJ	83,000 J	11 J	< 1 UJ	1.8 J	NA	250 J	< 3 UJ	140,000	< 10 UJ	NA	NA	36 J	890 J	< 5 UJ	< 1 UJ	110,000	< 1 UJ	< 10 UJ	34 J	1,000
	05/18/99	< 100	< 5	< 5	67.7	< 4	< 2	65,900	**14.8**	< 10	< 10	NA	< 100	**5.5**	92,300	< 10	NA	NA	48.5	< 5,000	< 5	< 2	92,700	< 2	< 10	< 20	825
	03/15/99	< 100	< 5	< 5	76.4	< 4	< 2	72,500	**11.5**	< 10	< 10	NA	< 100	< 3	109,000	< 10	NA	NA	51.9	< 5,000	< 5	< 2	91,200	< 2	< 10	< 20	948
	11/17/98	< 100	< 5	< 5	78.5	< 4	< 2	73,200	**16.8**	< 10	**19.1**	NA	< 100	**5.4**	108,000	11.9	NA	NA	82.4	< 5,000	5	< 2	93,700	< 2	< 10	< 20	893
	08/17/98	< 100	< 5	< 5	72.7	< 4	< 2	69,200	**18**	< 10	< 10	NA	< 100	< 3	101,000	< 10	NA	NA	74.6	< 5,000	< 5	< 2	95,700	< 2	< 10	< 20	908
	04/15/98	< 100	< 5	< 5	72	< 4	< 2	68,000	**18**	< 10	10	NA	< 100	< 3	100,000	11	NA	NA	80	< 5,000	< 5	< 2	89,000	< 2	< 10	< 20	810
	01/14/98	< 100	< 5	< 5	70	< 4	< 2	70,000	10	< 10	< 10	NA	< 100	< 3	110,000	10	NA	NA	70	< 5,000	**6**	< 2	91,000	< 2	< 10	< 20	940
	11/11/97	< 100	< 5	< 5	70	< 4	< 2	66,000	< 10	< 10	< 10	NA	< 100	< 3	110,000	< 10	NA	NA	80	< 5,000	5	< 2	94,000	< 2	< 10	< 20	940
	08/12/97	< 100	< 5	< 5	70	< 4	< 2	69,000	10	< 10	< 10	NA	< 100	< 3	110,000	< 10	NA	NA	70	< 5,000	**13**	< 2	98,000	< 2	< 10	< 20	930
	05/14/97	< 100	< 5	< 5	60	< 4	< 2	60,000	**20**	< 10	< 10	NA	< 100	< 3	91,000	10	NA	NA	60	< 5,000	**7**	< 2	83,000	< 2	< 10	20	530 (J33)
	02/13/97	< 100	< 5	< 5	70	< 4	< 2	72,000	**20**	< 10	< 10	NA	200	< 3	110,000	< 10	NA	NA	50	< 5,000	< 5	< 2	100,000	< 2	< 10	< 20	920
	12/06/96	< 100	< 5	< 5	70	< 4	< 2	73,000	**20**	< 10	< 10	NA	< 100	3	120,000	< 10	< 0.2	NA	70	< 5,000	**15**	< 2	97,000	< 2	< 10	40	NA
	08/29/96	< 100	< 5	< 5	70	< 2	< 0.5	71,000	**14**	< 10	1	NA	< 100	1	110,000	< 10	< 0.2	NA	77	< 5,000	**14**	< 0.5	93,000	< 2	< 10	< 20	NA
	05/30/96	< 100	< 5	< 5	70	< 2	< 0.5	66,000	**17**	< 10	< 1	NA	< 100	< 1	98,000	< 10	< 0.2	NA	44	< 5,000	< 5	< 0.5	100,000	< 2	< 10	< 20	NA
	03/06/96	< 100 U	< 5 U	< 5 U	67	< 2 U	< 0.5 U	66,500	**22**	< 10 U	< 1 U	NA	< 100 U	< 1 U	101,000	12	< 0.2 U	NA	61	< 5,000 U	< 5 U	< 0.5 U	97,000	< 2 U	< 10 U	< 20 U	NA
	12/11/95	< 100	< 5	< 5	74	< 2	< 0.5	85,200	**15**	< 10	1	NA	< 100	< 1	137,000	39	< 0.2	NA	125	< 5,000	< 5	< 0.5	110,000	< 2	< 10	< 20	NA
	09/12/95	< 200 U	< 60 U	< 5 U	66	< 2 U	< 2 U	63,000	**22**	< 20 U	< 10 U	NA	< 100 U	< 3 U	110,000	19	< 0.2 U	< 20	90	1,200	**8.4**	< 5 U	83,000	< 5 U	< 10 U	35	NA
DAEGW06	03/01/07	< 100	< 1	< 5	57	< 2	< 1 UJ	35,000	< 10	< 10	1.9	NA	< 100	< 3	63,000	16	NA	NA	< 20	960 J	< 5	< 1	35,000	< 1	< 10	< 20 UJ	380
	03/16/06	< 100	< 1	< 5	51	< 2	< 1	30,000	< 10	< 10	< 1	NA	< 100	< 3	57,000 J	< 10	NA	NA	< 20	870 J-	< 5	< 1	31,000	< 1	< 10	< 20	540 J
	03/16/05	< 100	< 1	< 5	50	< 2	< 1	32,000	< 10	< 10	< 1	NA	< 100	< 3	64,000	140	NA	NA	< 20	870	< 5	< 1	35,000	< 1	< 10	< 20	500
	03/11/04	< 100	< 1	< 5	77	< 2	< 1	35,000	< 10	< 10	< 1	NA	120	< 3	62,000	1,900	NA	NA	< 20	860	< 5	< 1 UJ	35,000	< 1	< 10	< 20	390
	08/20/03	< 100	< 1	< 5	41	< 2	< 1	35,000	< 10	< 10	< 1	NA	280	< 3	64,000	< 10	NA	< 5	< 20	920	< 5	< 1 UJ	36,000	< 1	< 10	< 20 UJ	500

Table A-7-4
Results of Dissolved Metals Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [5]		**--**	**6**	**10**	**1,000**	**4**	**1.1**	**--**	**11**	**--**	**11.8**	**--**	**--**	**3.2**	**--**	**--**	**0.01**	**--**	**158**	**--**	**5**	**4.1**	**--**	**1.7**	**--**	**106**	**--**
DAEGW06	03/12/03	< 100	1.8	< 1	57	< 1	< 1	33,000	< 1	< 1	< 1	NA	< 100 UJ	< 3	66,000	800	NA	NA	2.5	920	< 5	< 1 UJ	37,000	< 1	< 10	< 10	430
	12/04/02	< 100	< 1	1.2	49	< 1	< 1	30,000	< 1	< 1	< 1	NA	130	< 3	56,000	330	NA	NA	1.9	890	< 5	< 1 UJ	31,000	< 1	< 10	< 10	440
	09/03/02	< 100	< 1	1.3	380	< 1	< 1	34,000	< 1 UJ	< 1	< 1	NA	< 100	< 3	64,000	< 10	NA	NA	< 1	1,000	< 5	< 1 UJ	36,000	< 1	< 10	96	420
	06/04/02	< 100	< 1	1.3	650	< 1	< 1	34,000	2	< 1	1.2	NA	120	< 3	64,000	< 10	NA	NA	< 1	1,100	< 5	< 1	36,000	< 1	< 10	**180**	400
	03/12/02	< 100	< 1	1	250	< 1	< 1	31,000	< 1	< 1	2	NA	100	< 3	68,000	220	NA	NA	4	1,100	< 5	< 1 UJ	36,000	< 1	< 10	35	410
	12/03/01	< 100	2	1	940	< 1	< 1	42,000	3	< 1	1.9	NA	< 100	< 3	74,000	140	NA	NA	3.5	1,200	< 5	< 1	47,000	< 1	< 10	**180**	470
	08/28/01	< 100	1.5	1.6	380	< 1	< 1	37,000	< 1	< 1	5	NA	190	< 3	69,000	< 10	NA	NA	1.2	1,100	< 5	< 1	38,000	< 1	< 10	**150**	440
	05/17/01	< 100	< 1 UJ	1.5 J	71 J	< 1 UJ	< 1 UJ	39,000 J	< 1 UJ	< 1 UJ	1.2 J	NA	120 J	< 3 UJ	78,000	< 10 UJ	NA	NA	< 1 UJ	1,100 J	< 5 UJ	< 1 UJ	43,000	< 1 UJ	< 10 UJ	14 J	450
DUP0517012A	05/17/01	< 100	1.3 J	1.4 J	85 J	< 1 UJ	< 1 UJ	37,000 J	< 1 UJ	< 1 UJ	1.3 J	NA	120 J	< 3 UJ	78,000	< 10 UJ	NA	NA	< 1 UJ	1,100 UJ	< 5 UJ	< 1 UJ	40,000	< 1 UJ	< 10 UJ	14 J	430
	05/17/99	< 100	< 5	< 5	30.2	< 4	< 2	35,400	< 10	< 10	< 10	NA	606	< 3	61,500	967	NA	NA	< 20	< 5,000	< 5	< 2	34,900	< 2	< 10	63.5	527
	02/15/99	< 100	< 5	< 5	21.8	< 4	< 2	34,300	< 10	< 10	**13.3**	NA	260	< 3	63,000	941	NA	NA	< 20	< 5,000	< 5	< 2	34,000	< 4.6 (U1)	< 10	< 20	457
	11/16/98	< 100	< 5	< 5	56.4	< 4	< 2	37,700	< 10	< 10	< 10	NA	715	< 3	63,500	1,190	NA	NA	< 20	< 5,000	< 5	< 2	39,300	**3.9**	< 10	< 20	547
	08/14/98	< 100	< 5	< 5	90.7	< 4	< 2	38,400	< 10	< 10	10.2	NA	< 100	< 3	60,500	360	NA	NA	< 20	< 5,000	< 5	< 2	51,400	< 2	< 10	< 20	449
	04/14/98	< 100	< 5	< 5	36	< 4	< 2	38,000	< 10	< 10	**17**	NA	< 100	< 3	64,000	42	NA	NA	< 20	< 5,000	< 5	< 2	37,000	< 2	< 10	< 20	510
	01/13/98	< 100	< 5	< 5	20	< 4	< 2	39,000	< 10	< 10	< 10	NA	< 100	< 3	61,000	160	NA	NA	< 20	< 5,000	< 5	< 2	36,000	< 2	< 10	< 20	480
	11/10/97	< 100	< 5	< 5	20	< 4	< 2	36,000	< 10	< 10	< 10	NA	300	< 3	60,000	910	NA	NA	< 20	< 5,000	< 5	< 2	35,000	< 2	< 10	< 20	420
	08/11/97	< 100	< 5	< 5	40	< 4	< 2	40,000	< 10	< 10	< 10	NA	< 100	< 3	62,000	< 10	NA	NA	< 20	< 5,000	**6**	< 2	44,000	< 2	< 10	< 20	500
	05/13/97	< 100	< 5	< 5	20	< 4	< 2	40,000	< 10	< 10	< 10	NA	< 100	< 3	60,000	110	NA	NA	< 20	< 5,000	5	< 2	35,000	< 2	< 10	< 20	460
	02/12/97	< 100	< 5	< 5	30	< 4	< 2	40,000	< 10	< 10	< 10	NA	< 100	< 3	63,000	270	NA	NA	< 20	< 5,000	< 5	< 2	38,000	< 2	< 10	< 20	430 (J29)
	12/06/96	< 100	< 5	< 5	20	< 4	< 2	45,000	< 10	< 10	< 10	NA	< 100	< 3	63,000	260	< 0.2	NA	< 20	< 5,000	**7**	< 2	38,000	< 2	< 10	< 20	NA
	08/28/96	< 100	< 5	< 5	20	< 2	< 0.5	47,000	< 1	< 10	< 1	NA	< 100	2	63,000	70	< 0.2	NA	< 5	< 5,000	**7**	< 0.5	37,000	< 2	< 10	< 20	NA
	05/30/96	< 100	< 5	< 5	30	< 2	< 0.5	45,000	< 1	< 10	1	NA	< 100	1	62,000	210	< 0.2	NA	6	< 5,000	< 5	< 0.5	45,000	< 2	< 10	20	NA
	03/06/96	< 100 U	< 5 U	< 5 U	71	< 2 U	< 0.5 U	50,000	1	< 10 U	< 1 U	NA	< 100 U	1	68,100	43	< 0.2 U	NA	< 5 U	< 5,000 U	< 5 U	< 0.5 U	60,000	< 2 U	< 10 U	< 20 U	NA
	12/11/95	< 100	< 5	< 5	19	< 2	< 0.5	47,700	2	< 10	< 1	NA	< 100	2	70,900	614	< 0.2	NA	< 5	< 5,000	< 5	< 0.5	48,000	< 2	< 10	< 20	NA
	09/12/95	< 200 U	< 60 U	< 5 U	24	< 2 U	< 2 U	41,000	< 10 U	< 20 U	< 10 U	NA	< 100 U	< 3 U	63,000	110	< 0.2 U	< 20	< 20 U	2,000	< 5 U	< 5 U	41,000	< 5 U	< 10 U	< 20 U	NA
DAEGW07	03/15/06	< 100	< 1	< 5	94	< 2	< 1	28,000	< 10	< 10	1.5	NA	180	< 3	19,000	54	NA	NA	< 20	1,200	< 5	< 1	22,000	< 1	< 10	< 20	300 J
	03/18/05	< 100	< 1	< 5	89	< 2	< 1	32,000	< 10	< 10	< 1	NA	260	< 3	22,000	30	NA	NA	< 20	650	< 5	< 1	18,000	< 1	< 10	< 20	330 J-
	03/17/04	< 100	< 1	< 5	75	< 2	< 1	36,000	< 10	< 10	< 1	NA	130	< 3	28,000	40	NA	NA	< 20	< 500	< 5	< 1 UJ	23,000	< 1	< 10	< 20	300
DUP0317041A	03/17/04	< 100	< 1	< 5	73	< 2	< 1	35,000	< 10	< 10	1	NA	< 100	< 3	27,000	18	NA	NA	< 20	< 500	< 5	< 1 UJ	22,000	< 1	< 10	< 20	310
	03/19/03	< 100 UJ	< 1	< 1	57	< 1	< 1	42,000 J	< 1 UJ	< 1	< 1	NA	< 100	< 3	41,000 J	< 10 UJ	NA	NA	11	< 500	< 5	< 1 UJ	19,000 J	< 1	< 10	< 10	280
	03/11/02	< 100	1.1	< 1	480	< 1	< 1	45,000	< 1	< 1	1.1	NA	100	< 3	35,000	< 10	NA	NA	12	670	< 5	< 1 UJ	25,000	< 1	< 10	**120**	280
	05/18/99	< 100	< 5	< 5	66.1	< 4	< 2	38,200	< 10	< 10	< 10	NA	< 100	**9.5**	33,300	10.1	NA	NA	< 20	< 5,000	< 5	< 2	24,300	< 2	< 10	< 20	493
	03/15/99	< 100	< 5	< 5	96.9	< 4	< 2	35,600	< 10	< 10	< 10	NA	< 100	**171**	28,000	30.4	NA	NA	< 20	< 5,000	< 5	< 2	23,500	< 2	< 10	43.7	266
	04/15/98	< 100	< 5	< 5	100	< 4	< 2	35,000	< 10	< 10	**12**	NA	< 100	< 3	27,000	120	NA	NA	< 20	< 5,000	< 5	< 2	22,000	< 2	< 10	< 20	260
	01/14/98	200	< 5	< 5	80	< 4	< 2	26,000	< 10	< 10	< 10	NA	< 100	< 3	23,000	< 10	NA	NA	< 20	< 5,000	< 5	< 2	21,000	< 2	< 10	< 20	280
	12/12/97	100	< 5	< 5	70	< 4	< 2	27,000	< 10	< 10	< 10	NA	< 100	< 3	20,000	< 10	NA	NA	< 20	< 5,000	< 5	< 2	21,000	< 2	< 10	< 20	250
	02/13/97	< 100	< 5	< 5	100	< 4	< 2	37,000	< 10	< 10	< 10	NA	100	< 3	31,000	140	NA	NA	< 20	< 5,000	< 5	< 2	22,000	< 2	< 10	< 20	260
	03/07/96	< 100 U	< 5 U	< 5 U	93	< 2 U	< 0.5 U	37,300	1	< 10 U	< 1 U	NA	610	< 1 U	34,000	245	< 0.2 U	NA	21	< 5,000 U	< 5 U	< 0.5 U	21,000	< 2 U	< 10 U	< 20 U	ND
	12/14/95	< 100	< 5	< 5	59	< 2	< 0.5	33,800	< 1	< 10	< 1	NA	< 100	< 1	30,900	< 10	< 0.2	NA	12	< 5,000	< 5	< 0.5	32,000	< 2	< 10	< 20	ND
DAEGW08	03/01/07	< 100	< 1	< 5	81	< 2	< 1 UJ	51,000	< 10	< 10	< 1	NA	< 100	< 3	91,000	240	NA	NA	45	500 J	< 5	< 1	68,000	< 1	< 10	21 J	580
	03/14/06	< 100	< 1	< 5	100	< 2	< 1	96,000	< 10	< 10	2.2	NA	160	< 3	180,000	750	NA	NA	87	< 500	< 5	< 1	120,000	< 1	< 10	< 20	1,280
	03/28/05	< 100	< 1	< 5	130	< 2	< 1	90,000	< 10	< 10	1.7	NA	220	< 3	160,000	540	NA	NA	91	< 500	< 5	< 1	100,000	< 1	< 10	< 20	1110
	03/17/04	< 100	< 1	< 5	130	< 2	< 1	99,000	< 10	< 10	1.2	NA	220	< 3	170,000	550	NA	NA	88	< 500	< 5	< 1 UJ	110,000	< 1	< 10	< 20	1,160
	08/18/03	< 100	< 1	< 5	98	< 2	< 1	70,000	< 10	< 10	< 1	NA	410	< 3	140,000	510	NA	< 5	79	< 500	< 5	< 1 UJ	85,000	< 1	< 10	< 20 UJ	920
	03/19/03	< 100 UJ	< 1	< 1	110	< 1	< 1	100,000 J	6.2 J	< 1	1.7	NA	250	< 3	190,000 J	490 J	NA	NA	81	< 500	< 5	< 1 UJ	120,000 J	< 1	< 10	< 10	1,000
	12/05/02	< 100	< 1	< 1	56	< 1	< 1	41,000	**12**	< 1	< 1	NA	120	< 3	73,000	120	NA	NA	39	< 500	< 5	< 1 UJ	60,000	< 1	< 10	< 10	580
	09/04/02	< 100	< 1	< 1	410	< 1	< 1	66,000	3.1 J	< 1	1.4	NA	< 100	< 3	130,000	430	NA	NA	78	< 500	< 5	< 1 UJ	88,000	< 1	< 10	77	860
	06/04/02	< 100	< 1	< 1	350	< 1	< 1	81,000	8.6	< 1	1.7	NA	300	< 3	170,000	550	NA	NA	93	< 500	< 5	< 1	110,000	< 1	< 10	43	1,020
	03/11/02	< 100	< 1	< 1	420	< 1	< 1	75,000	1.4	< 1	1	NA	200	< 3	180,000	410	NA	NA	80	< 500	< 5	< 1 UJ	120,000	< 1	< 10	41	1,150

Table A-7-4
Results of Dissolved Metals Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [5]		**--**	**6**	**10**	**1,000**	**4**	**1.1**	**--**	**11**	**--**	**11.8**	**--**	**--**	**3.2**	**--**	**--**	**0.01**	**--**	**158**	**--**	**5**	**4.1**	**--**	**1.7**	**--**	**106**	**--**
DAEGW08	11/30/01	< 100	< 1	< 1	360	< 1	< 1	44,000	**13**	< 1	1.3	NA	1,100	< 3	78,000	32	NA	NA	22	580	< 5	< 1 UJ	60,000	< 1	< 10	**120**	690
	08/29/01	160	1.3	< 1	290 J+	< 1	< 1	51,000	8.8	< 1	2.8	NA	360	< 3	100,000	180	NA	NA	53	< 500	< 5	< 1 UJ	80,000	< 1	< 10	74	750
	05/16/01	< 100	1.2	< 1	120	< 1	< 1	< 500 R	6.3 J	< 1	1.5	NA	470	< 3	120,000	210	NA	NA	65	< 500	< 5	< 1	91,000	< 1	< 10	< 10	950
	05/18/99	< 100	< 5	< 5	105	< 4	< 2	50,500	< 10	< 10	< 10	NA	< 100	< 3	100,000	285	NA	NA	81.7	< 5,000	< 5	< 2	72,100	< 2	< 10	44.4	667
	02/16/99	< 100	< 5	< 5	68.8	< 4	< 2	48,500	< 10	< 10	**21.1**	NA	< 100	< 3	95,900	< 10	NA	NA	20.6	< 5,000	< 5	< 2	76,100	< 2	< 10	34.3	801
	11/17/98	< 100	< 5	< 5	78.9	< 4	< 2	45,200	< 10	< 10	< 10	NA	< 100	< 3	87,800	10	NA	NA	< 20	< 5,000	< 5	< 2	59,200	< 2	< 10	< 20	643
	08/17/98	< 100	< 5	< 5	93.3	< 4	< 2	45,300	< 10	< 10	**12.1**	NA	< 100	< 3	85,800	70	NA	NA	56.9	< 5,000	< 5	< 2	57,700	< 2	< 10	< 20	617
	04/15/98	< 100	< 5	< 5	90	< 4	< 2	41,000	< 10	< 10	**12**	NA	< 100	< 3	80,000	71	NA	NA	43	< 5,000	< 5	< 2	64,000	< 2	< 10	< 20	590
	01/14/98	< 100	< 5	< 5	60	< 4	< 2	40,000	< 10	< 10	< 10	NA	< 100	< 3	78,000	< 10	NA	NA	< 20	< 5,000	**6**	< 2	75,000	< 2	< 10	< 20	660
	11/11/97	< 100	< 5	< 5	50	< 4	< 2	38,000	< 10	< 10	< 10	NA	< 100	< 3	73,000	10	NA	NA	< 20	< 5,000	5	< 2	69,000	< 2	< 10	< 20	640
	08/12/97	< 100	< 7	< 5	70	< 4	< 2	42,000	< 10	< 10	< 10	NA	< 100	< 3	89,000	< 10	NA	NA	< 20	< 5,000	**12**	< 2	78,000	< 2	< 10	< 20	710
	05/14/97	< 100	< 10	< 5	90	< 4	< 2	54,000	< 10	< 10	< 10	NA	< 100	< 3	110,000	80	NA	NA	50	< 5,000	**16**	< 2	83,000	< 2	< 10	< 20	830
	02/13/97	< 100	< 5	< 5	80	< 4	< 2	51,000	< 10	< 10	< 10	NA	< 100	< 3	110,000	50	NA	NA	50	< 5,000	**7**	< 2	76,000	< 2	< 10	< 20	850
	12/06/96	< 100	< 5	6	70	< 4	< 2	48,000	< 10	< 10	< 10	NA	< 100	3	97,000	< 10	< 0.2	NA	< 20	< 5,000	**18**	< 2	90,000	< 2	< 10	< 20	NA
	08/29/96	< 100	< 5	< 5	80	< 2	< 0.5	55,000	4	< 10	1	NA	< 100	2	110,000	60	< 0.2	NA	35	< 5,000	**20**	< 0.5	84,000	< 2	< 10	< 20	NA
	06/10/96	< 100	< 5	< 5	80	< 2	< 0.5	68,000	1	< 10	< 1	NA	< 100	< 1	130,000	50	< 0.2	NA	35	< 5,000	**9**	< 0.5	120,000	< 2	< 10	< 20	NA
	03/07/96	< 100 U	< 5 U	< 5 U	110	< 2 U	< 0.5 U	89,700	2	< 10 U	< 1 U	NA	< 100 U	< 1 U	187,000	30	< 0.2 U	NA	38	< 5,000 U	< 5 U	< 0.5 U	137,000	< 2 U	< 10 U	< 20 U	NA
	12/14/95	< 100	< 5	< 5	64	< 2	< 0.5	54,100	9	< 10	< 1	NA	< 100	< 1	109,000	36	< 0.2	NA	26	< 5,000	< 5	< 0.5	93,000	< 2	< 10	35	NA
	09/12/95	< 200 U	< 60 U	< 5 U	66	< 2 U	< 2 U	60,000	< 10 U	< 20 U	< 10 U	NA	< 100 U	< 3 U	130,000	24	< 0.2 U	< 20	28	< 500 U	**10**	< 5 U	97,000	< 5 U	< 10 U	75	NA
DAESP03	03/08/06	130	< 1	< 5	35	< 2	< 1	9,600	< 10	< 10	6.8	NA	450	< 3	17,000	23	< 0.2	NA	54	1,600	< 5	< 1	24,000	< 1	< 10	< 20	400
(Total)	03/08/06	6,500	< 1	< 5	85	< 2	< 1	12,000	**70**	< 10	**17**	NA	9,800	**16**	23,000	130	NA	NA	140	2,300	< 5	< 1	26,000	< 1	19	63	NA
DUP0308063A	03/08/06	100	< 1	< 5	35	< 2	< 1	9,400	< 10	< 10	6.9	NA	500	< 3	16,000	26	< 0.2	NA	53	1,500	< 5	< 1	20,000	< 1	< 10	22	350
(Total)	03/08/06	5,400	< 1	< 5	77	< 2	< 1	11,000	**52**	< 10	**15**	NA	8,300	**15**	19,000	110	NA	NA	120	1,900	< 5	< 1	28,000	< 1	15	74	NA
DAESP03CL	03/08/06	140	< 2 U	< 2 U	46	< 1 U	< 1 U	12,000	< 10 U	< 1 U	6.6	NA	430 J+	2.2	22,000	30	< 0.2 U UJ	< 20 U	51	< 5,000 U	< 2 U	< 1 U	26,000	< 1 U	< 10 U	< 20 U	326
(Total)	03/08/06	6,400	< 2 U	< 2 U	84	< 1 U	< 1 U	12,000	**72**	2.7	**12**	NA	9,700 J+	**14**	23,000	110	< 0.2 U	NA	98	< 5,000 U	< 2 U	< 1 U	26,000	< 1 U	23	51	NA
	03/22/05	< 100	< 1	< 5	33	< 2	< 1	8,100	< 10	< 10	7.3	NA	350	< 3	15,000	19	< 0.2	< 5	47	2,100	< 5	< 1	17,000	< 1	< 10	< 20	330
(Total)	03/22/05	11,000	< 1	< 5	86	< 2	< 1	9,200	**94**	< 10	**19**	NA	13,000	**14**	18,000	150	< 0.2	NA	150	2,900	< 5	< 1	17,000	< 1	25	47	NA
DAESP03 [2]	12/28/01	< 1,000	< 1	< 1	34	< 1	< 1	7,600	**15**	< 1	**18**	NA	1,100	**3.4**	14,000	18	< 0.2 R	NA	67	< 5,000	< 5	< 1	17,000	**2.8**	< 10	35	NA
DUP112801 [3]	12/28/01	< 1,000	< 1	< 1	32	< 1	< 1	7,300	**13**	< 1	**24**	NA	900	3.2	12,000	17	< 0.2	NA	70	4,500	< 5	< 1	15,000	< 1	< 10	56	NA
	01/23/98	<100	< 5	< 5	147	< 4	< 2	80,700	< 10	< 10	**21.1**	NA	< 100	**8.9**	20,100	< 10	< 0.2	NA	< 20	< 5,000	< 5	< 2	20,000	< 2	< 10	**287**	NA
	02/24/98	2,940	< 5	< 5	60.6	< 4	< 2	10,400	**29.1**	< 10	10.1	NA	3,900	**7.2**	18,800	< 10	< 0.2	NA	72.9	< 5,000	< 5	< 2	23,000	< 2	10.2	51.8	NA
	02/17/99	120	< 5	< 5	52.9	< 4	< 2	17,200	< 10	< 10	**22.5**	NA	344	**3.9**	18,200	<10	NA	NA	59.3	< 5,000	< 5	< 2	21,200	< 2	< 10	76.3	NA
DAEGW101	03/02/07	< 100	< 1	< 5	72	< 2	< 1 UJ	190,000	< 10	< 10	2.7	NA	< 100	< 3	90,000	410	< 0.2	NA	31	27,000 J	< 5	< 1	53,000	< 1	< 10	< 20 UJ	1,050 J+
	03/16/06	< 100	< 1	< 5	46	< 2	< 1	180,000	< 10	< 10	1	NA	< 100	< 3	79,000 J	310	< 0.2	< 5	< 20	30,000 J-	< 5	< 1	51,000	1.1	< 10	< 20	650 J
	05/26/05	< 100	< 1	< 5	64	< 2	< 1	170,000	< 10	< 10	1.2	NA	320	< 3	86,000 J	270	< 0.2	< 5	32	30,000	< 5	< 1	57,000 J	< 1	< 10	< 20	730
	03/16/05	< 100	< 1	< 5	40	< 2	< 1	180,000	< 10	< 10	1.4	NA	370	< 3	86,000	56	< 0.2	< 5	< 20	30,000	< 5	< 1	59,000	< 1	< 10	< 20	1,040
	08/12/04	< 100	< 1	< 5	38	< 2	< 1	180,000	< 10	< 10	< 1 U	NA	350	< 3	88,000	170	< 0.2	< 5	< 20	30,000	< 5	< 1	67,000	< 1	< 10	< 20	NA
	05/27/04	< 100	< 1	< 5	28	< 2	< 1	170,000	< 10	< 10	2.2	NA	470	< 3	90,000	90	< 0.2	< 5	< 20	32,000	< 5	< 1	69,000	< 1	< 10	< 20	900
	03/11/04	< 100	< 1	< 5	32	< 2	< 1	180,000	< 10	< 10	1.4	NA	570	< 3	85,000	64	< 0.2	< 5	< 20	31,000	< 5	< 1 UJ	69,000	< 1	< 10	< 20	890
	08/20/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,160
	06/05/03	< 100	2	< 5	19	< 2	< 1	170,000	< 10	< 10	1.5	NA	360	< 3	96,000	420	< 0.2	< 5	< 20	26,000	< 5	< 1 UJ	110,000	< 1	< 10	< 20	1,040
	03/13/03	< 100	2.1	3.4	18	< 1	< 1	160,000	3.3	1	1	< 10	470 J	< 3	85,000	460	< 0.2	< 20	9.9	28,000	< 5	< 1 UJ	97,000	< 1	< 10	< 10	950
DAEGW102	03/07/07	< 100	< 1	< 5	200	< 2	< 1	100,000	< 10	< 10	< 1	NA	< 100	< 3	130,000	250	< 0.2	< 5	< 20	1,900 J	< 5	< 1	88,000	< 1	< 10	< 20	1,070
	03/16/06	< 100	< 1	< 5	250	< 2	< 1	160,000	< 10	< 10	< 1	NA	< 100	< 3	210,000 J	< 10	< 0.2	< 5	< 20	2,100 J-	< 5	< 1	120,000	< 1	< 10	< 20	1,270 J
	05/26/05	< 100	< 1	< 5	260	< 2	< 1	180,000	< 10	< 10	1.9	NA	370	< 3	270,000 J	< 10	< 0.2	< 5	< 20	2,700	< 5	< 1	140,000 J	< 1	< 10	< 20	1,610
	03/17/05	< 100	< 1	< 5	290	< 2	< 1	210,000	< 10	< 10	1.9	NA	450	< 3	310,000	< 10	< 0.2	< 5	< 20	3,000	< 5	< 1	170,000	< 1	< 10	< 20	2,200
	12/15/04	< 100	< 1	< 5	150	< 2	< 1	38,000 J	< 10	< 10	1.7	NA	420	< 3	49,000	< 10	< 0.2	< 5	< 20	3,000	< 5	< 1	110,000	1.1 J-	< 10	40	2,160
	08/12/04	< 100	< 1	< 5	360	< 2	< 1	230,000	< 10	< 10	< 1 U	NA	470	< 3	300,000	< 10	< 0.2	< 5	< 20	3,400	< 5	< 1	150,000	< 1	< 10	< 20	2,020
	05/27/04	< 100	< 1	< 5	340	< 2	< 1	220,000	< 10	< 10	1.3	NA	560	< 3	330,000	< 10	< 0.2	< 5	< 20	3,600	< 5	< 1	170,000	< 1	< 10	< 20	2,110

Table A-7-4
Results of Dissolved Metals Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [5]		**--**	**6**	**10**	**1,000**	**4**	**1.1**	**--**	**11**	**--**	**11.8**	**--**	**--**	**3.2**	**--**	**--**	**0.01**	**--**	**158**	**--**	**5**	**4.1**	**--**	**1.7**	**--**	**106**	**--**
DAEGW102	03/15/04	< 100	< 1	5.2	290	< 2	< 1	180,000	< 10	< 10	1.3	NA	380	< 3	240,000	< 10	< 0.2	< 5	< 20	3,700	< 5	< 1	130,000	< 1	< 10	< 20	2,120
	12/04/03	< 100	< 1	< 5	240	< 2	< 1	150,000	< 10	< 10	1.5	NA	720	< 3	270,000	48	< 0.2	< 5	< 20	3,500	< 5	< 1	140,000	< 1	< 10	< 20	1,820
	08/19/03	< 100	1.4	< 5	220	< 2	< 1	210,000	< 10	< 10	< 1	NA	1,300	< 3	300,000	130	< 0.2	< 5	< 20	3,800	**5.8**	< 1 UJ	160,000	< 1	< 10	< 20 UJ	2,240
	06/04/03	< 100	1.3	< 5	180	< 2	< 1	200,000	< 10	< 10	1.8	NA	390	< 3	300,000	320	< 0.2	< 5	< 20	5,200	< 5	< 1 UJ	190,000	< 1	< 10	< 20	2,170
	03/12/03	< 100	2.3	3.1	120	< 1	< 1	210,000	3.2	1.2	4.5	< 10	540 J	< 3	260,000	510	< 0.2	< 20	3.5	7,000	< 5	< 1 UJ	210,000	< 1	< 10	< 10	2,080
DAEGW103	03/01/07	< 100	< 1	< 5	150	< 2	< 1 UJ	41,000	**19**	< 10	2.3	NA	< 100	< 3	44,000	< 10	< 0.2	< 5	< 20	830 J	< 5	< 1	94,000	< 1	< 10	< 20 UJ	570 J+
	03/14/06	< 100	< 1	< 5	100	< 2	< 1	39,000	< 10	< 10	**14**	NA	240	**3.8**	28,000	< 10	< 0.2	< 5	20	1,600	< 5	< 1	60,000	< 1	< 10	26	610
	05/26/05	< 100	< 1	< 5	150	< 2	< 1	39,000	**15**	< 10	< 1	NA	< 100	< 3	41,000 J	< 10	< 0.2	< 5	< 20	670	< 5	< 1	89,000 J	< 1	< 10	< 20	420
	03/17/05	< 100	< 1	< 5	150	< 2	< 1	39,000 J	**13**	< 10	< 1	NA	120	< 3	41,000	< 10	< 0.2	< 5	< 20	780	< 5	< 1	88,000	< 1	< 10	< 20	580 J-
DAEGW103CL	03/17/05	< 100 U	< 2 U	< 2 U	168	< 1 U	< 1 U	44,600	**17.1**	< 1 U	< 2 U	NA	< 100 U	< 1 U	49,900	< 10 U	< 0.2 U	< 20 U	2.01	< 5,000 UN	< 2 U	< 1 U	109,000 J	< 1 U	< 10 U	< 20 U	612
DUP0317053A	03/17/05	< 100	< 1	< 5	150	< 2	< 1	41,000 J	**13**	< 10	1.7	NA	120	< 3	41,000	< 10	< 0.2	< 5	< 20	770	< 5	< 1	89,000	< 1	< 10	< 20	640 J-
	12/15/04	< 100	< 1	< 5	160	< 2	< 1	37,000 J	**16**	< 10	< 1	NA	< 100	< 3	110,000	< 10	< 0.2	< 5	< 20	720	< 5	< 1	66,000	< 1 UJ	< 10	< 20	620
DUP1215042A	12/15/04	< 100	< 1	< 5	160	< 2	< 1	39,000 J	**16**	< 10	< 1	NA	110	< 3	50,000	< 10	< 0.2	< 5	< 20	730	< 5	< 1	110,000	< 1 UJ	< 10	< 20	650
DAEGW103CL	12/15/04	< 100 U	< 2 U	< 2 U	172	< 1 U	< 1 U	44,100	**18.1**	< 1 U	< 2 U	NA	< 100 U	< 1 U	50,600	< 10 U	< 0.2 U	< 20 U	< 2 U	< 5,000 U	< 2 U	< 1 U	106,000	< 1 U	< 10 U	< 20 U	624
	08/11/04	< 100	< 1	< 5	170 J	< 2	< 1	44,000	**17**	< 10	2.7	NA	< 100	< 3	46,000	< 10	< 0.2	< 5	< 20	750	< 5	< 1	99,000	< 1	< 10	< 20	590
DUP0811042B	08/11/04	< 100	< 1	< 5	160 J	< 2	< 1	42,000	**16**	< 10	< 1	NA	< 100	< 3	44,000	< 10	< 0.2	< 5	< 20	680	< 5	< 1	97,000	< 1	< 10	< 20	610
DAEGW103CL [4]	08/11/04	< 11	< 10	< 40	120	< 10	< 10	1,400	**17**	< 10	< 10	NA	< 10	< 50	39,000	0.12 J	< 5	51	< 30	1,000	< 20	**9 J**	3,900	< 50	7.9 J	< 30	694
	05/28/04	< 100	< 1	< 5	160	< 2	< 1	44,000	**17**	< 10	< 1	NA	< 100	< 3	51,000	< 10	< 0.2	< 5	< 20	690	< 5	< 1	110,000	< 1	< 10	< 20	590
DUP0528041A	05/28/04	< 100	< 1	< 5	160	< 2	< 1	45,000	**16**	< 10	< 1	NA	< 100	< 3	50,000	< 10	< 0.2	< 5	< 20	650	< 5	< 1	110,000	< 1	< 10	< 20	590
DAEGW103CL	05/28/04	< 50	< 5	6	170	< 1	< 1	45,000	**16**	< 7	< 10	NA	850	< 3	50,000	< 5	< 0.2	< 20	< 10	NA	NA	NA	NA	NA	NA	NA	560
	03/10/04	< 100	< 1	< 5	170	< 2	< 1	44,000	**15**	< 10	< 1	NA	110	< 3	47,000	< 10	< 0.2	< 5	< 20	830	< 5	< 1 UJ	100,000	< 1	< 10	< 20	620
DUP0310043B	03/10/04	< 100	< 1	< 5	160	< 2	< 1	44,000	**15**	< 10	< 1	NA	110	< 3	47,000	< 10	< 0.2	< 5	< 20	830	< 5	< 1 UJ	100,000	< 1	< 10	< 20	620
DAEGW103CL	03/10/04	< 100	< 5	< 5	150	< 1	< 1	44,000	**14**	< 7	< 10	NA	< 500	< 3	47,000	< 5	< 0.2	< 20	< 10	< 1,000	< 5	< 1	100,000	< 2	< 10	< 20	620 QB01
	12/04/03	< 100	< 1	< 5	170	< 2	< 1	37,000	**17**	< 10	< 1	NA	140	< 3	49,000	< 10	< 0.2	< 5	< 20	730	< 5	< 1	100,000	< 1	< 10	< 20	600
DUP1204033A	12/04/03	< 100	2.1	< 5	160	< 2	< 1	37,000	**17**	< 10	< 1	NA	140	< 3	49,000	< 10	< 0.2	< 5	< 20	710	< 5	< 1	100,000	< 1	< 10	< 20	610
DAEGW103CL	12/04/03	< 1000	< 5	6.3	160	< 1	< 1	43,000	**18**	< 7	< 10	NA	< 500	< 3	46,000	< 5	< 0.2	< 20	< 10	< 1,200	< 5	< 1	110,000	< 2	< 10	< 20	610
	08/19/03	< 100	< 1	< 5	160	< 2	< 1	40,000	**17**	< 10	2.8	NA	210	< 3	48,000	< 10	< 0.2	< 5	< 20	620	< 5	< 1 UJ	99,000	< 1	< 10	< 20 UJ	640
DUP0819033B	08/19/03	< 100	< 1	< 5	160	< 2	< 1	41,000	**17**	< 10	< 1	NA	210	< 3	48,000	< 10	< 0.2	< 5	< 20	630	< 5	< 1 UJ	99,000	< 1	< 10	< 20 UJ	610
DAEGW103CL	08/19/03	< 100	< 5	< 5	160	< 1	< 1	42,000	**18**	< 7	< 10	NA	< 500 UJ	< 3	48,000	< 5	< 0.2	< 20	< 10	< 1,000	< 5	< 1	110,000	< 2	< 10	< 20	520
	06/04/03	< 100	< 1	< 5	150	< 2	< 1	43,000	**17**	< 10	< 1	NA	< 100	< 3	48,000	< 10	< 0.2	< 5	< 20	810	< 5	< 1 UJ	100,000	< 1	< 10	< 20	410
DUP0604033A	06/04/03	< 100	1.4	< 5	150	< 2	< 1	42,000	**17**	< 10	< 1	NA	< 100	< 3	48,000	< 10	< 0.2	< 5	< 20	800	< 5	< 1 UJ	100,000	< 1	< 10	< 20	510
DAEGW103CL	06/04/03	< 100	< 5	2.4	160	< 1	< 1	43,000	**15**	< 1	< 5	NA	< 500	< 3	47,000	< 5	< 0.2	< 20	< 5	< 1,000	< 5	< 1	110,000	< 2	< 10	< 20	640
	03/13/03	< 100	< 1	< 1	140	< 1	< 1	38,000	**17**	< 1	< 1	10	110 J	< 3	46,000	< 10	< 0.2	< 20	3.9	730	< 5	< 1 UJ	99,000	< 1	< 10	< 10	670
DUP0313033A	03/13/03	< 100	< 1	< 1	150	< 1	< 1	41,000	**17**	< 1	< 1	10	< 100 UJ	< 3	48,000	< 10	< 0.2	< 20	2.2	760	< 5	< 1 UJ	100,000	< 1	< 10	< 10	620
DAEGW103CL	03/13/03	< 100	< 5	4.4	150	< 1	< 1	42,000	**23**	< 1	< 5	15	< 500	< 3	47,000	< 5	< 0.2	< 20	< 5	1,000	< 5	< 1	140,000	< 2	< 10	17	580
	11/25/02	NA	< 5	< 5	150	< 5	**4.2**	46,000	**79**	25	**25**	< 10	42,000	**6.7**	53,000	920 J-	< 0.2	< 5	110	2,900	< 5	< 5	100,000	< 5	47	61	830 J-
DAEGW104	03/02/07	< 100	< 1	< 5	77	< 2	< 1 UJ	45,000	< 10	< 10	< 1	NA	< 100	< 3	49,000	510	< 0.2	< 5	< 20	1,200 J	< 5	< 1	38,000	< 1	< 10	< 20 UJ	410 J+
DUP0302071A	03/02/07	< 100	< 1	< 5	76	< 2	< 1 UJ	45,000	< 10	< 10	< 1	NA	< 100	< 3	48,000	520	< 0.2	< 5	< 20	1,300 J	< 5	< 1	38,000	< 1	< 10	< 20 UJ	440 J+
DAEGW104CL	03/02/07	< 50	< 0.05	1	80.3	< 0.02	0.02	47,500	< 5	0.29	0.4	NA	< 20	< 0.02	55,100	538	< 0.2	2.34	2.8	< 2,000	< 4	< 0.02	44,700	< 0.02	< 10	< 10	293 J-
	03/16/06	< 100	< 1	< 5	38	< 2	< 1	37,000	< 10	< 10	< 1	NA	< 100	< 3	41,000 J	43	< 0.2	< 5	< 20	960 J-	< 5	< 1	34,000	< 1	< 10	< 20	660 J
	05/26/05	< 100	< 1	< 5	40	< 2	< 1	43,000	< 10	< 10	< 1	NA	< 100	< 3	45,000 J	< 10	< 0.2	< 5	< 20	1,900	< 5	< 1	47,000 J	< 1	< 10	< 20	330
DUP0526052A	05/26/05	< 100	< 1	< 5	40	< 2	< 1	50,000	< 10	< 10	< 1	NA	< 100	< 3	52,000 J	< 10	< 0.2	< 5	< 20	1,900	< 5	< 1	54,000 J	< 1	< 10	< 20	340
DAEGW104CL	05/26/05	< 100 U	< 2 U	< 2 U	40.7	< 20 U	< 1 U	44,900	< 10 U	< 1 U	< 2 U	NA	< 100 U	< 1 U	52,700	< 10 U	< 0.2 U	< 20 U	< 2 U	< 5,000 U	< 2 U	< 1 U	54,300	< 1 U	< 10 U	< 20 U	438
	03/16/05	< 100	< 1	< 5	36	< 2	< 1	39,000	< 10	< 10	< 1	NA	120	< 3	48,000	< 10	< 0.2	< 5	< 20	1,700	< 5	< 1	40,000	< 1	< 10	< 20	430
	12/15/04	< 100	< 1	< 5	38	< 2	< 1	43,000 J	< 10	< 10	< 1	NA	< 100	< 3	48,000	260	< 0.2	< 5	< 20	1,600	< 5	< 1	41,000	1.1 J-	< 10	< 20	440
	08/12/04	< 100	< 1	< 5	28	< 2	< 1	44,000	< 10	< 10	< 1	NA	< 100	< 3	49,000	190	< 0.2	< 5	< 20	1,700	< 5	< 1	42,000	< 1	< 10	< 20	380
	05/27/04	< 100	< 1	< 5	25	< 2	< 1	45,000	< 10	< 10	< 1	NA	120	< 3	50,000	120	< 0.2	< 5	< 20	1,900	< 5	< 1	43,000	< 1	< 10	< 20	440
	03/15/04	< 100	< 1	< 5	41	< 2	< 1	42,000	< 10	< 10	< 1	NA	< 100	< 3	48,000	41	< 0.2	< 5	< 20	2,000	< 5	< 1	40,000	< 1	< 10	< 20	470
	12/04/03	< 100	3.1	< 5	27	< 2	< 1	39,000	< 10	< 10	< 1	NA	140	< 3	51,000	75	< 0.2	< 5	< 20	2,000	< 5	< 1	41,000	< 1	< 10	< 20	560

Table A-7-4
Results of Dissolved Metals Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [5]		**--**	**6**	**10**	**1,000**	**4**	**1.1**	**--**	**11**	**--**	**11.8**	**--**	**--**	**3.2**	**--**	**--**	**0.01**	**--**	**158**	**--**	**5**	**4.1**	**--**	**1.7**	**--**	**106**	**--**
DAEGW104	08/19/03	< 100	< 1	< 5	20	< 2	< 1	40,000	< 10	< 10	< 1	NA	250	< 3	46,000	48	< 0.2	< 5	< 20	1,900	< 5	< 1 UJ	38,000	< 1	< 10	< 20 UJ	400
DUP0819033A	08/19/03	< 100	1.5	< 5	23	< 2	< 1	41,000	< 10	< 10	< 1	NA	280	< 3	47,000	330	< 0.2	< 5	< 20	1,700	< 5	< 1 UJ	38,000	< 1	< 10	< 20 UJ	430
	06/04/03	< 100	1.4	< 5	22	< 2	< 1	42,000	< 10	< 10	3.5	NA	< 100	< 3	46,000	290	< 0.2	< 5	< 20	2,400	< 5	< 1 UJ	40,000	< 1	< 10	< 20	450
	03/12/03	< 100	1.5	1.9	27	< 1	< 1	43,000	< 1	< 1	< 1	< 10	120 J	< 3	50,000	190	< 0.2	< 20	1.1	3,100	< 5	< 1 UJ	49,000	< 1	< 10	< 10	420
	11/25/02	NA	< 5	**11**	320	< 5	**12**	74,000	**250**	57	**140**	< 10	130,000	**37**	100,000	1,900 J-	**0.37**	10	**350**	11,000	< 5	< 5	98,000	< 5	190	**280**	810 J-

Total Metals [6]

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [5]		**--**	**6**	**10**	**1,000**	**4**	**1.1**	**--**	**11**	**--**	**11.8**	**--**	**--**	**3.2**	**--**	**--**	**0.01**	**--**	**158**	**--**	**5**	**--**	**--**	**--**	**--**	**106**	**--**
DAESP03	03/08/06	6,500	< 1	< 5	85	< 2	< 1	12,000	**70**	< 10	**17**	NA	9,800	**16**	23,000	130	NA	NA	140	2,300	< 5	< 1	26,000	< 1	19	63	NA
DUP0308063A	03/08/06	5,400	< 1	< 5	77	< 2	< 1	11,000	**52**	< 10	**15**	NA	8,300	**15**	19,000	110	NA	NA	120	1,900	< 5	< 1	28,000	< 1	15	74	NA
DAESP03CL	03/08/06	6,400	< 2 U	< 2 U	84	< 1 U	< 1 U	12,000	**72**	2.7	**12**	NA	9,700 J+	**14**	23,000	110	< 0.2 U	NA	98	< 5,000 U	< 2 U	< 1 U	26,000	< 1 U	23	51	NA
	03/22/05	11,000	< 1	< 5	86	< 2	< 1	9,200	**94**	< 10	**19**	NA	13,000	**14**	18,000	150	< 0.2	NA	150	2,900	< 5	< 1	17,000	< 1	25	47	NA

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - This sample was labeled LFE-GW on the chain of custody and was reported by the laboratory as LFE-GW. This sample ID (LFE-GW) has been changed within the text, tables, and database to reflect the historical name of this seep (DAESP03).
3 - This sample was labeled LFE-GWD on the chain of custody and was reported by the laboratory as LFE-GWD. In accordance with the QAPP, this sample ID (LFE-GWD) was changed to DUP112801 within the text, tables, and database.
4 - Dissolved metals were analyzed by the quality control laboratory using method E200.7 on an Inductively Coupled Plasma (ICP) instrument. The primary laboratory analyzed dissolved metals by EPA Method 6020 on an ICP/Mass Spectrometry (ICP/MS) instrument. Although variability between these two methods is not expected, the variability in the data may be a result of different analytical methods used.
5 - Cleanup levels taken from Table 3-1 of the *Draft Landfill E Feasibility Study Report,* (CH2MHill, 2005).
6 - The cleanup levels listed for metals, do not apply to total metals.
µg/L - micrograms per liter
mg/L - milligrams per liter
NA - Not analyzed
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Groundwater samples collected from all site monitoring wells were field filtered and analyzed for dissolved metals.
All metal results represent dissolved metals, unless indicated as "total" in the left-hand column, for total metal results.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-7-5
Groundwater Elevation Summary
Landfill E
Presidio of San Francisco, California

Location ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
DAEGW03	02/26/07	53.75	107.48	53.73	MW
	08/14/06	52.68	107.48	54.80	MW
	05/22/06	52.58	107.48	54.90	MW
	03/06/06	55.38	107.48	52.10	MW
	11/28/05	57.25	107.48	50.23	MW
	08/29/05	56.69	107.48	50.79	MW
	05/23/05	56.71	107.48	50.77	MW
	03/14/05	58.62	107.48	48.86	MW
	12/13/04	60.66	107.48	46.82	MW
	08/09/04	59.89	107.48	47.59	MW
	05/24/04	59.22	107.48	48.26	MW
	03/08/04	59.68	107.48	47.80	MW
	12/01/03	60.50	107.48	46.98	MW
	08/11/03	59.43	107.48	48.05	MW
	06/02/03	58.68	107.48	48.80	MW
	03/10/03	58.62	107.48	48.86	MW
	12/02/02	59.56	107.48	47.92	MW
	08/26/02	58.79	107.48	48.69	MW
	05/28/02	58.14	107.48	49.34	MW
	03/04/02	58.50	107.48	48.98	MW
	11/26/01	59.84	107.48	47.64	MW
	08/27/01	58.87	107.48	48.61	MW
	05/08/01	57.96	107.48	49.52	MW
DAEGW04	02/26/07	42.10	94.38	52.28	MW
	08/14/06	41.15	94.38	53.23	MW
	05/22/06	40.90	94.38	53.48	MW
	03/06/06	43.54	94.38	50.84	MW
	11/28/05	45.52	94.38	48.86	MW
	08/29/05	44.97	94.38	49.41	MW
	05/23/05	44.99	94.38	49.39	MW
	03/14/05	46.57	94.38	47.81	MW
	12/13/04	48.76	94.38	45.62	MW
	08/09/04	48.14	94.38	46.24	MW
	05/24/04	47.46	94.38	46.92	MW
	03/08/04	47.67	94.38	46.71	MW
	12/01/03	48.74	94.38	45.64	MW
	08/11/03	47.68	94.38	46.70	MW
	06/02/03	46.95	94.38	47.43	MW
	03/10/03	46.78	94.38	47.60	MW
	12/02/02	47.81	94.38	46.57	MW
	08/26/02	47.02	94.38	47.36	MW
	05/28/02	46.42	94.38	47.96	MW
	03/04/02	46.61	94.38	47.77	MW
	11/26/01	48.05	94.38	46.33	MW
	08/27/01	47.11	94.38	47.27	MW
	05/08/01	46.21	94.38	48.17	MW
DAEGW05	02/26/07	52.53	105.65	53.12	MW
	08/14/06	51.45	105.65	54.20	MW
	05/22/06	51.12	105.65	54.53	MW
	03/06/06	54.00	105.65	51.65	MW
	11/28/05	56.00	105.65	49.65	MW
	08/29/05	55.40	105.65	50.25	MW
	05/23/05	55.30	105.65	50.35	MW
	03/14/05	57.15	105.65	48.50	MW
	12/13/04	59.50	105.65	46.15	MW
	08/09/04	58.75	105.65	46.90	MW
	05/24/04	57.95	105.65	47.70	MW
	03/08/04	58.22	105.65	47.43	MW
	12/01/03	59.25	105.65	46.40	MW
	08/11/03	58.23	105.65	47.42	MW
	06/02/03	57.50	105.65	48.15	MW
	03/10/03	57.35	105.65	48.30	MW

Table A-7-5
Groundwater Elevation Summary
Landfill E
Presidio of San Francisco, California

Location ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
DAEGW05	12/02/02	58.31	105.65	47.34	MW
	08/26/02	57.64	105.65	48.01	MW
	05/28/02	56.96	105.65	48.69	MW
	03/04/02	57.19	105.65	48.46	MW
	11/26/01	58.71	105.65	46.94	MW
	08/27/01	57.71	105.65	47.94	MW
	05/08/01	56.80	105.65	48.85	MW
DAEGW06	02/26/07	14.73	119.26	104.53	MW
	08/14/06	12.67	119.26	106.59	MW
	05/22/06	9.89	119.26	109.37	MW
	03/06/06	11.71	119.26	107.55	MW
	11/28/05	22.65	119.26	96.61	MW
	08/29/05	15.81	119.26	103.45	MW
	05/23/05	12.00	119.26	107.26	MW
	03/14/05	13.89	119.26	105.37	MW
	12/13/04	26.40	119.26	92.86	MW
	08/09/04	23.69	119.26	95.57	MW
	05/24/04	17.73	119.26	101.53	MW
	03/08/04	17.22	119.26	102.04	MW
	12/01/03	25.78	119.26	93.48	MW
	08/11/03	21.64	119.26	97.62	MW
	06/02/03	15.69	119.26	103.57	MW
	03/10/03	16.68	119.26	102.58	MW
	12/02/02	25.15	119.26	94.11	MW
	08/26/02	21.68	119.26	97.58	MW
	05/28/02	15.12	119.26	104.14	MW
	03/04/02	17.34	119.26	101.92	MW
	11/26/01	26.88	119.26	92.38	MW
	08/27/01	25.25	119.26	94.01	MW
	05/08/01	20.39	119.26	98.87	MW
DAEGW07	02/26/07	9.52	75.66	66.14	MW
	08/14/06	9.40	75.66	66.26	MW
	05/22/06	5.01	75.66	70.65	MW
	03/06/06	1.75	75.66	73.91	MW
	11/28/05	9.60	75.66	66.06	MW
	08/29/05	9.59	75.66	66.07	MW
	05/23/05	8.14	75.66	67.52	MW
	03/14/05	3.20	75.66	72.46	MW
	12/13/04	9.44	75.66	66.22	MW
	08/09/04	9.60	75.66	66.06	MW
	05/24/04	9.56	75.66	66.10	MW
	03/08/04	4.31	75.66	71.35	MW
	12/01/03	Dry	75.66	67.66	MW
	08/11/03	9.61	75.66	66.05	MW
	06/02/03	9.37	75.66	66.29	MW
	03/10/03	8.39	75.66	67.27	MW
	12/02/02	9.59	75.66	66.07	MW
	08/26/02	9.60	75.66	66.50 [2]	MW
	05/28/02	9.56	75.66	66.54 [2]	MW
	03/04/02	6.06	75.66	69.60	MW
	11/26/01	9.58	75.66	66.52 [2]	MW
	08/27/01	9.48	75.66	66.18	MW
	05/08/01	9.50	75.66	66.16	MW
DAEGW08	02/26/07	19.52	71.66	52.14	MW
	08/14/06	18.34	71.66	53.32	MW
	05/22/06	17.28	71.66	54.38	MW
	03/06/06	20.34	71.66	51.32	MW
	11/28/05	22.96	71.66	48.70	MW
	08/29/05	22.28	71.66	49.38	MW
	05/23/05	21.89	71.66	49.77	MW
	03/14/05	23.44	71.66	48.22	MW

Table A-7-5
Groundwater Elevation Summary
Landfill E
Presidio of San Francisco, California

Location ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
DAEGW08	12/13/04	26.21	71.66	45.45	MW
	08/09/04	25.51	71.66	46.15	MW
	05/24/04	24.82	71.66	46.84	MW
	03/08/04	24.78	71.66	46.88	MW
	12/01/03	26.12	71.66	45.54	MW
	08/11/03	25.08	71.66	46.58	MW
	06/02/03	24.26	71.66	47.40	MW
	03/10/03	24.06	71.66	47.60	MW
	12/02/02	25.23	71.66	46.43	MW
	08/26/02	24.41	71.66	47.25	MW
	05/28/02	23.68	71.66	47.98	MW
	03/04/02	23.81	71.66	47.85	MW
	11/26/01	25.49	71.66	46.17	MW
	08/27/01	24.51	71.66	47.15	MW
	05/08/01	23.42	71.66	48.58 [2]	MW
DAEGW101	02/26/07	41.94	107.09	65.15	MW
	08/23/06	39.09	107.09	68.00	MW
	05/22/06	35.32	107.09	71.77	MW
	03/06/06	34.42	107.09	72.67	MW
	11/28/05	44.40	107.09	62.69	MW
	08/29/05	40.60	107.09	66.49	MW
	05/23/05	36.02	107.09	71.07	MW
	03/14/05	34.80	107.09	72.29	MW
	12/13/04	Dry	107.09	65.09 [2]	MW
	08/09/04	42.56	107.09	64.53	MW
	05/24/04	36.93	107.09	70.16	MW
	03/08/04	35.78	107.09	71.31	MW
	12/01/03	Dry	107.09	65.09	MW
	08/11/03	42.35	107.09	64.74	MW
	06/02/03	39.29	107.09	67.80	MW
	03/10/03	35.51	107.09	71.58	MW
DAEGW102	02/26/07	13.10	116.72	103.62	MW
	08/14/06	11.50	116.72	105.22	MW
	05/22/06	11.09	116.72	105.63	MW
	03/06/06	17.01	116.72	99.71	MW
	11/28/05	19.62	116.72	97.10	MW
	08/29/05	19.12	116.72	97.60	MW
	05/23/05	24.72	116.72	92.00	MW
	03/14/05	17.33	116.72	99.39	MW
	12/13/04	22.17	116.72	94.55	MW
	08/09/04	20.39	116.72	96.33	MW
	05/24/04	20.02	116.72	96.70	MW
	03/08/04	19.07	116.72	97.65	MW
	12/01/03	21.37	116.72	95.35	MW
	08/11/03	19.08	116.72	97.64	MW
	06/02/03	17.38	116.72	99.34	MW
	03/10/03	18.41	116.72	98.31	MW
DAEGW103	02/26/07	27.78	111.73	83.95	MW
	08/14/06	28.47	111.73	83.26	MW
	05/22/06	29.07	111.73	82.66	MW
	03/06/06	29.43	111.73	82.30	MW
	11/28/05	29.68	111.73	82.05	MW
	08/29/05	29.89	111.73	81.84	MW
	05/23/05	30.03	111.73	81.70	MW
	03/14/05	30.10	111.73	81.63	MW
	12/13/04	30.06	111.73	81.67	MW
	08/09/04	29.88	111.73	81.85	MW
	05/24/04	29.73	111.73	82.00	MW
	03/08/04	29.64	111.73	82.09	MW

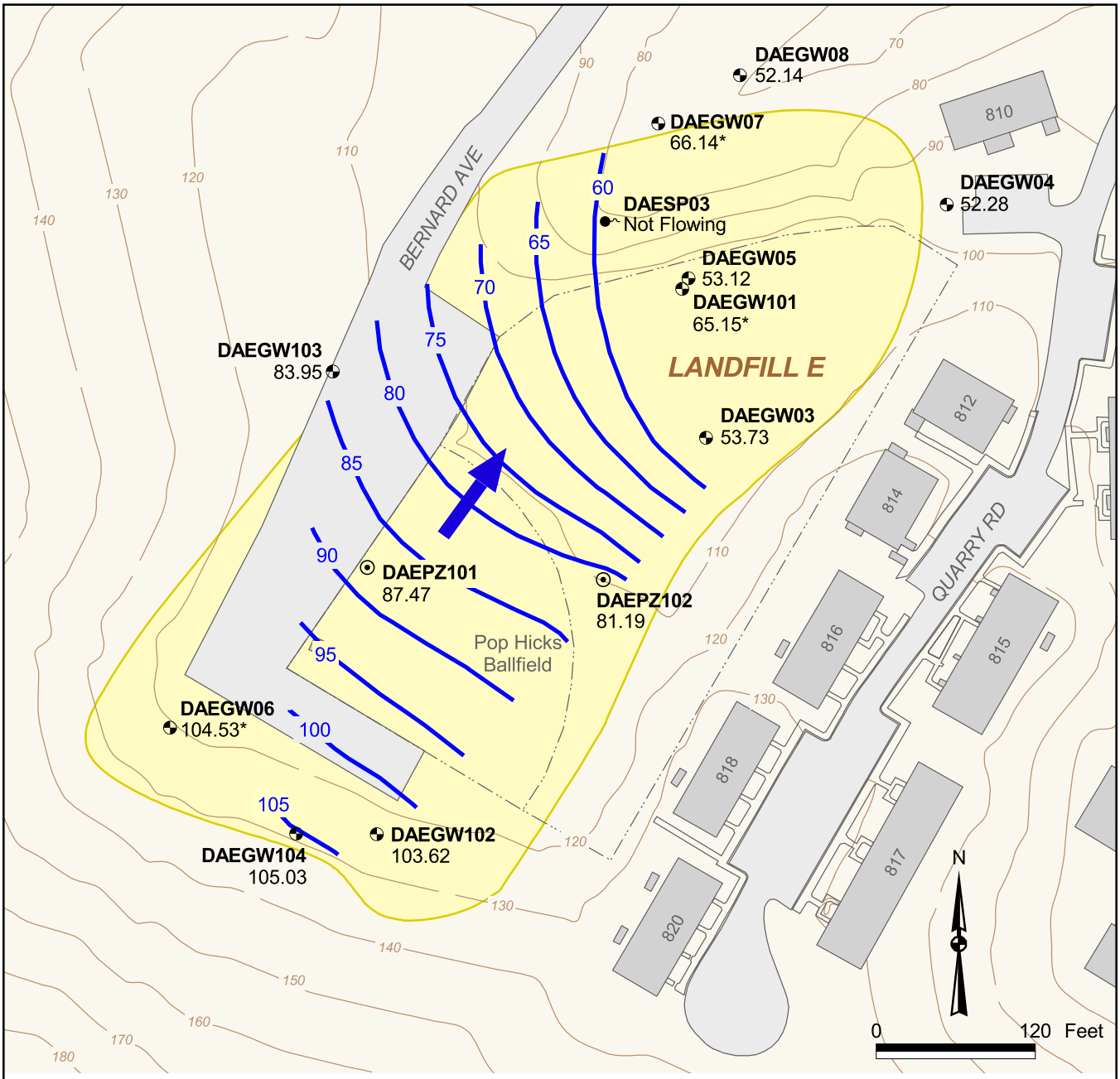
Table A-7-5
Groundwater Elevation Summary
Landfill E
Presidio of San Francisco, California

Location ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
DAEGW103	12/01/03	29.59	111.73	82.14	MW
	08/11/03	29.42	111.73	82.31	MW
	06/02/03	29.34	111.73	82.39	MW
	03/10/03	29.27	111.73	82.46	MW
DAEGW104	02/26/07	15.25	120.28	105.03	MW
	08/14/06	15.53	120.28	104.75	MW
	05/22/06	19.79	120.28	100.49	MW
	03/06/06	18.83	120.28	101.45	MW
	11/28/05	19.88	120.28	100.40	MW
	08/29/05	19.41	120.28	100.87	MW
	05/23/05	18.30	120.28	101.98	MW
	03/14/05	22.52	120.28	97.76	MW
	12/13/04	26.86	120.28	93.42	MW
	08/09/04	26.19	120.28	94.09	MW
	05/24/04	22.70	120.28	97.58	MW
	03/08/04	25.96	120.28	94.32	MW
	12/01/03	27.21	120.28	93.07	MW
	08/11/03	24.09	120.28	96.19	MW
	06/02/03	21.90	120.28	98.38	MW
	03/10/03	23.10	120.28	97.18	MW
DAEPZ101	02/26/07	26.36	113.83	87.47	PZ
	08/14/06	23.73	113.83	90.10	PZ
	05/22/06	21.67	113.83	92.16	PZ
	03/06/06	22.14	113.83	91.69	PZ
	11/28/05	26.42	113.83	87.41	PZ
	08/29/05	24.90	113.83	88.93	PZ
	05/23/05	22.84	113.83	90.99	PZ
	03/14/05	21.47	113.83	92.36	PZ
	12/13/04	27.91	113.83	85.92	PZ
	08/09/04	26.62	113.83	87.21	PZ
	05/24/04	25.43	113.83	88.40	PZ
	03/08/04	25.89	113.83	87.94	PZ
DAEPZ102	02/26/07	28.90	110.09	81.19	PZ
	08/14/06	27.88	110.09	82.21	PZ
	05/22/06	27.02	110.09	83.07	PZ
	12/01/03	28.30	110.09	81.79	PZ
	12/01/03	28.32	113.83	85.51	PZ
	08/11/03	27.47	113.83	86.36	PZ
	06/02/03	26.80	113.83	87.03	PZ
	03/10/03	26.27	113.83	87.56	PZ
	03/06/06	28.30	110.09	81.79	PZ
	11/28/05	28.93	110.09	81.16	PZ
	08/29/05	26.68	110.09	83.41	PZ
	05/23/05	28.31	110.09	81.78	PZ
	03/14/05	28.05	110.09	82.04	PZ
	12/13/04	29.29	110.09	80.80	PZ
	08/09/04	28.91	110.09	81.18	PZ
	05/24/04	28.61	110.09	81.48	PZ
	03/08/04	28.85	110.09	81.24	PZ
	12/01/03	29.22	110.09	80.87	PZ
	08/11/03	28.72	110.09	81.37	PZ
	06/02/03	28.58	110.09	81.51	PZ
	03/10/03	28.69	110.09	81.40	PZ
DAESP03	02/26/07	Not flowing	--	--	Surface
	12/04/06	Not flowing	--	--	Surface
	08/14/06	Not flowing	--	--	Surface
	05/22/06	Not flowing	--	--	Surface
	03/06/06	Flowing	--	--	Surface
	11/28/05	Not flowing	--	--	Surface
	08/29/05	Not flowing	--	--	Surface
	05/23/05	Not flowing	--	--	Surface
	03/14/05	Not flowing	--	--	Surface
	12/13/04	Not flowing	--	--	Surface
	08/09/04	Not flowing	--	--	Surface

Table A-7-5
Groundwater Elevation Summary
Landfill E
Presidio of San Francisco, California

Location ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
DAESP03	05/24/04	Not flowing	--	--	Surface
	03/08/04	Not flowing	--	--	Surface
	12/01/03	Not flowing	--	--	Surface
	08/11/03	Not flowing	--	--	Surface
	06/02/03	Not flowing	--	--	Surface

Notes
1 - All depth to water measurements are an average of three measurements recorded in the field.
2 - The limited amount of water observed within this well most likely represents water in the end cap not representative of the natural aquifer.
MW- Monitoring well
PZ - piezometer
feet PLLW - feet above Presidio lower low water vertical datum



LEGEND

- **DAEGW04** 52.28 — Groundwater Monitoring Well, February 2007 Groundwater Elevation
- **DAEPZ101** 87.47 — Piezometer, February 2007 Groundwater Elevation
- **DAESP03** — Approximate Surface Water Sample Location
- Approximate Direction of Groundwater Flow
- Groundwater Elevation Contour (Contour Interval : 5 ft)
- Topographic Contour (Contour Interval : 10 ft)
- 810 — Building and Number
- Approximate Lateral Extent of Landfill

* Wells DAEGW06 and DAEGW07 were not used in contouring, due to semi-confined and perched conditions, respectively. Whereas, well DAEGW101 was not used in contouring because it is screened in a shallower interval.

Notes:
Groundwater elevation data collected on 26 February 2007.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

LANDFILL E SITE PLAN AND 26 FEBRUARY 2007 GROUNDWATER ELEVATION MAP

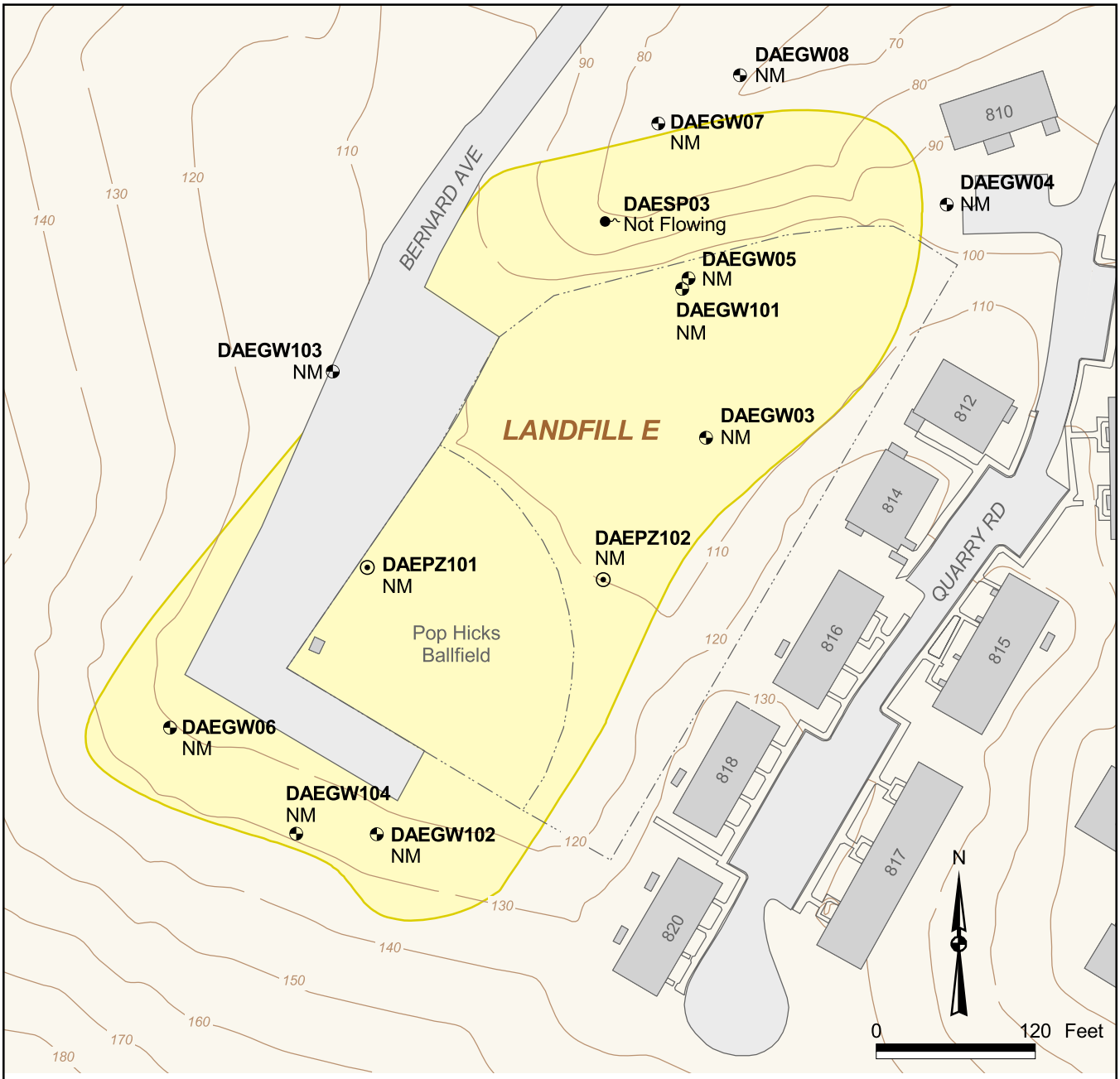
Treadwell&Rollo

THE PRESIDIO TRUST

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34 Graham Street
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94129-0052
415/561-5300
fax 561-5315
October 2007

FIGURE A-7-1

Treadwell & Rollo 2893.04\Q2_2007\A_07.APR 10/2007



LEGEND

- **DAEGW04** Groundwater Monitoring Well
- **DAEPZ101** Piezometer
- **DAESP03** Approximate Surface Water Sample Location
- NM Not Measured
- Topographic Contour (Contour Interval : 10 ft)
- 810 Building and Number
- Approximate Lateral Extent of Landfill

Notes:
Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

LANDFILL E SITE PLAN AND 4 JUNE 2007 GROUNDWATER ELEVATION MAP

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October 2007

FIGURE A-7-2

Treadwell & Rollo 2893.04\Q2_2007\A_07.APR 10/2007

First Quarter 2007

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill E | Well No.: DAE GW03

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BR | Sampled by: BR | Date: 3-2-07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 78.15

Depth to Water (WL, ft. below TOC): 54.03

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type: disp.

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length: ~ X Water Volume/ft: — X No. Vols: — = CALCULATED PURGE VOLUME: gals

Total Purge Time: —

Recharge Rate: —

Purge Rate: 0.5 gpm

ACTUAL PURGE VOLUME: 9.5 gals

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron L. / Hach turb / YSI D.O

Time	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm) uS	ORP (mV)	Turbidity (NTU)	Comments
920	Initial	7.03	12.2	pre 1.11	1793		8	
923	1.5	6.79	13.7		1767		8	
926	3.0	6.75	14.3		1745		5	
929	4.5	6.72	13.8		1772		6	
				post 0.98				

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other baker tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3-2-07 / 940

Purging Equipment: Pump - Type: ~~disp~~ Bailer - Type: disp Other:

Sample Filtered: Yes / No Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
DAEGW03	500 / 250	C+T	2191	
	500 HNO3			
	6 HCl VOA			
	6 Amber Liters			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 6 | Well No.: DAEGW04

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BP | Sampled by: BP | Date: 3/7/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 63.75

Depth to Water (WL, ft. below TOC): 42.19

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	(1.68)
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type

[X] Normal [X] Pump \ Type 3" Grundfos

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[X] Near Bottom Depth (ft) 62'

[ ] Other

PURGE VOLUME CALCULATION

21.56 (Water Column Length) x 1.68 (Water Volume/ft) x 3 (No. Vols) = 109 gals CALCULATED PURGE VOLUME

Total Purge Time: 22 min

Recharge Rate:

Purge Rate: 5 spm

110 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Horiba U10 Myron Ultra YSI 55

Time	Liters or (Gallons)	pH	Temp °C °F	DO (mg/L)	Sp. COND ~~mS/cm~~ µS	ORP (mV)	Turbidity (NTU)	Comments
1042	37	6.6	15.9	-	1228	-	15	
1050	74	6.7	15.8	-	1224	-	12	
1057	109	6.7	16.0	-	1227	-	11	
1100	-			4.0				DM24221

Comments: Purge water storage/disposal: [ ] Purge onsite [X] Other Baker

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3-7-07 / 1100

Purging Equipment: Pump - Type: | Bailer - Type: disposable | Other:

Sample Filtered: (Yes) / No | Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
DAEGW04	3x 40mL	CT	2201	
	3x 1L Amb			
	2x 500 poly			
	1x 250 Poly			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill E | Well No.: DAE GW05

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BR | Sampled by: BR | Date: 3-2-07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 72.85

Depth to Water (WL, ft. below TOC): 52.71

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: disp

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

— (Water Column Length) X — (Water Volume/ft) X — (No. Vols) = gals CALCULATED PURGE VOLUME

Total Purge Time: —

Recharge Rate: —

Purge Rate: 0.5 gpm

45 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron L / Hach 2100P / YSI DO

Time / Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm) uS	ORP (mV)	Turbidity (NTU)	Comments
826 / initial	6.96	11.6	pre 0.64	1946		15	
829 / 1.5	6.75	13.2		1400		9	
832 / 3.0	6.62	12.8		1389		7	
835 / 4.5	6.70	12.5		1396		7	
/			post 0.94				
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other baker tank

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: 3-2-07 / 840

Purging Equipment: Pump - Type: Bailer - Type: disp Other:

Sample Filtered: (Yes) / No Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
DAE GW05	1500poly 1250	C+T	2191	
	500 HNO3			
	6x 1 Lit Amber			
	6 HCl VOC			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill E | Well No.: DAEGW06
Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: BR | Sampled by: BR | Date: 3-01-07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 43,50
Depth to Water (WL, ft. below TOC): 21.17
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: disp
[ ] Normal [ ] Pump \ Type:
[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):
[ ] Near Bottom Depth (ft):
[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length: — X Water Volume/ft: — X No. Vols: — = CALCULATED PURGE VOLUME: — gals

ACTUAL PURGE VOLUME: 4.5 gals

Total Purge Time:
Recharge Rate: —
Purge Rate: 0.5 gpm

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: myron L. / Hach 2100p

Time /	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm) uS	ORP (mV)	Turbidity (NTU)	Comments
1309 /	initial	5.85	10.3	pre 2.11	949		10	YSI D.O
1312 /	1.5	5.62	12.0		864		16	
1315 /	3.0	5.60	11.9		859		18	
1318 /	4.5	5.66	12.0		845		14	
/			post	2.05				
/								
/								
/								
/								
/								
/								
/								
/								
/								
/								

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other: baker tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3-1-07 / 1320

Purging Equipment: Pump - Type: Bailer - Type: disp. Other:

Sample Filtered: Yes / No Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
DAEGW06	1500 ml poly 250 ppb	CFT	2188	
	1500 HNO3			
	4 x 1 Lit amb			
	~~6 HCl vod~~ 3 HCl vod			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: DAE | Well No.: DAEGW08

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: D. Cornish | Sampled by: D. Cornish | Date: 3/1/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 35.39

Depth to Water (WL, ft. below TOC): 19.70

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp.
[ ] Normal [ ] Pump \ Type:
[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):
[ ] Near Bottom Depth (ft):
[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: 0.5 gpm

4.5 gals ACTUAL PURGE VOLUME

DO YSI 550

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron Ultrameter / Hach 2100

Time	/ Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	(FL.) DTW:	Comments
1558	/ initial	7.04	13.3	pre 0.32	905.6	-	8		
1601	/ 1.5	6.92	13.4	-	906.5	-	11		20.10
1604	/ 3	6.89	13.6	-	930.0	-	13		20.85
1607	/ 4.5	6.87	13.6	-	955.2	-	15		21.21
	/			post 0.26					
	/								
	/								
	/					DTW: 22.21		Post Purge	
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other onsite tanks

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: 3/1/07 / 1612

Purging Equipment: Pump - Type: Bailer - Type: Disp Other:

Sample Filtered: (Yes) / No Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
DAEGW08	1x500ml Poly NP	CAT	7127	
	6x1L Amber NP			
	6x40ml Voa HCl			
	1x500ml Poly HNO3			

QUALITY CONTROL SAMPLES 1x250ml Poly NP

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill E | Well No.: DAE GW101
Project Number: ~~2893~~ 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: BR | Sampled by: BR | Date: 3-1-07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other
Well Total Depth (TD, ft. below TOC): 44.90
Depth to Water (WL, ft. below TOC):
Depth to free phase (FP, ft. below TOC):

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: disp
[ ] Normal [ ] Pump \ Type:
[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):
[ ] Near Bottom Depth (ft):
[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length: — X Water Volume/ft: — X No. Vols: — = gals CALCULATED PURGE VOLUME

Total Purge Time: —
Recharge Rate: —
Purge Rate: 0.5gpm

2.0 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron L1 / Hach 2100P / YSI P.O

Time	/ Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1409	/ initial	5.14	13.2	pre 1.01	1670		28	
1414	/ 1.5	5.08	12.5		1719		32	
	/	Dewater @ 2.0 gallons						DTW = 44.20
	/		(3-2) post	0.91				
	/							
748	/ —	5.95	13.3		1708		22	DTW = 42.88
	/							
	/	well dewatered while filling bottles						
	/	slow recharge. Could not fill complete bottle set						
	/							
	/							
	/							
	/							
	/							
	/							

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other baker tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3-2-07 / 750

Purging Equipment: Pump - Type: Bailer - Type: disp Other:
Sample Filtered: (Yes) / No Filtered Sample Analysis: metals

SAMPLING PROGRAM

2191

Sample No.	Container #/Volume	Laboratory	COC #	Comments
DAE GW101	~~1x500 poly~~ / ~~1 HNO3~~	C+T	E&T	not enough water for total
	~~125ml~~ 500ml HNO3			bottle set.
	250poly NP / 6HCl vials			
	8x Amber Lit. NP			TDS / metals / PAHs / VOCs / TPHG

QUALITY CONTROL SAMPLES

Laboratory Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 5 DA5 | Well No.: DA5GW102
Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: P. Cornish | Sampled by: P. Cornish | Date: 3/7/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 29.50
Depth to Water (WL, ft. below TOC): 13.68
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp.
[ ] Normal [ ] Pump \ Type:
[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):
[ ] Near Bottom Depth (ft):
[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:
Recharge Rate:
Purge Rate: 0.5 gpm

4.5 gals ACTUAL PURGE VOLUME

DO
YSI 550

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron L 4 Trameter / Hach 2100

Time	/	Liters or gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
855	/	initial	6.63	13.0	pre 1.31	1850 µS	-	14	
856	/	1.5	6.85	13.4	-	1826	-	39	
901	/	3	6.98	13.5	-	1863	-	68	
904	/	4.5	6.98	13.5	-	1875	-	98	
	/				post 082				
	/								
	/					25.68'	DTW - post Purge		
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other onsite Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/7/06 / 912

Purging Equipment: Pump - Type: Bailer - Type: Disp. Other:

Sample Filtered: Yes / No Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
DA5GW102	3x500ml Poly NP	CAT	2199	
	1x250ml Poly HNO3			
	1x 500ml Poly HNO3			
	1x250ml Poly NP			

QUALITY CONTROL SAMPLES

Duplicate Samples: 5x1L Amber NP, 6x40ml Voa HCl

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill E | Well No.: DAEGW103
Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: BR | Sampled by: BR | Date: 3-1-07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 34.30
Depth to Water (WL, ft. below TOC): 27.72
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: disp
[X] Normal [ ] Pump \ Type:
[ ] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):
[ ] Near Bottom Depth (ft):
[ ] Other:

PURGE VOLUME CALCULATION

6.58 (Water Column Length) x 0.9 (Water Volume/ft) x 6.0 x 3 = 17.8 (No. Vols) = 17.8 gals CALCULATED PURGE VOLUME

Total Purge Time: 19 min.
Recharge Rate:
Purge Rate: buckets

18.0 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron L. / Hach 2100P YSI D.O

Time	/ Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm) uS	ORP (mV)	Turbidity (NTU)	Comments
1525	/ 6.0	5.44	11.7	pre = 6.03	1082		>1000	
1531	/ 12.0	4.87	12.3		1016		>1000	
1537	/ 18.0	4.95	12.8		1007		>1000	DTW = 28.06
	/			Post = 6.98				
	/							
	/							
	/							
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	/							
	/							

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other: baker tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3-1-07 / 1540

Purging Equipment: Pump - Type: Bailer - Type: disp Other:

Sample Filtered: (Yes) / No Filtered Sample Analysis: metals

SAMPLING PROGRAM

2187

Sample No.	Container #/Volume	Laboratory	COC #	Comments
DAEGW103	500 / 250 / 1000 NP	CTT	~~2188~~	
	125 500 HNO3			
	6 Amber NP			
	6 HCl VOA			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell & Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: DAE | Well No.: DAEGW104

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: P. Cornish | Date: 3/2/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC): 13.80

Depth to free phase (FP, ft. below TOC):

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp.
[ ] Normal [ ] Pump \ Type:
[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft): :
[ ] Near Bottom Depth (ft):
[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: 0.5 gpm

4.5 gals ACTUAL PURGE VOLUME

DO YSI 550A

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron Ultrameter / Hach 2100

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
915	/	initial	7.78	11.7	pre. 0.70	822.2 µs	—	11	
918	/	1.5	7.71	12.4	—	763.9	—	45	
921	/	3	7.77	12.4	—	755.2	—	84	
924	/	4.5	7.80	12.8	—	751.5	—	49	
	/				post DO 1.49				
	/								
	/								
	/					DTW: 24.12		Post Purge	
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/2/07 / 930

Purging Equipment: Pump - Type: Bailer - Type: Disp. Other:

Sample Filtered: (Yes) / No Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
DAEGW104	3 x 500ml Poly NP	CAT	2191	MS/MSD
	3 x 1L Poly NP			Split sample ID → DAEGW104C1 @930
	3 x 125ml Poly HNO3			
	3 x 500ml Poly HNO3			

QUALITY CONTROL SAMPLES 3x250ml Poly NP 18x40ml Voa HCl

Duplicate Samples 18x1L Amber NP

Original Sample No.	Duplicate Sample No.
DAEGW104	DUP030207-1A @ 940

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell & Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area DAE Well No. DAESP07

Project Number 2893 Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By D. Cornish Sampled by — Date 2/26/07

WELL PURGING

PURGE VOLUME

Well casing diameter

[ ] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC) :

Depth to Water (WL, ft. below TOC) :

Depth to free phase (FP, ft. below TOC) :

Number of borehole volumes to be purged

[ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type

[ ] Normal [ ] Pump \ Type

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/		Seep not running - check 1st day and 2nd Day onsite					
/		during rain					
/		No Sample					
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled /

Purging Equipment Pump - Type Bailer - Type Other

Sample Filtered: Yes / No Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area DAE | Well No. DAEGW07

Project Number 2893 | Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By P.Cornish | Sampled by – | Date 3/1/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 9.62

Depth to Water (WL, ft. below TOC): 9.48

Depth to free phase (FP, ft. below TOC):

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type

[ ] Normal [ ] Pump \ Type

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1530 /			Insufficient Water for Purge or Sample per Client				
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments | Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled /

Purging Equipment: Pump - Type | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

Second Quarter 2007

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill X E (X) Well No.: DAESP03

Project Number: 2893 Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: S. Rose Sampled by: — Date: 04/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC):

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/							
/	*Sleep Not Running. No Sample for this event.						
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: /

Purging Equipment: Pump - Type Bailer - Type Other

Sample Filtered: Yes / No Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

LANDFILL 4
APPENDIX SECTION A-8
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2007
Presidio of San Francisco, California

1.0 INTRODUCTION AND BACKGROUND

Landfill 4 (LF 4) is located in the west-central portion of the Presidio (Figure 1) between Central Magazine Road and Hitchcock Street. The site elevation ranges from 285 to 325 feet above the PLLW vertical datum (Figure A-8-1).

LF 4 operated between 1946 and 1981 and was used to dispose of debris and fill material. In 1981, Landfill 4 was closed and a 3-foot-thick soil cap was placed over the debris (ANL, 1989). The landfill contained up to 14 vertical feet of debris material, reportedly consisting of a variety of different materials that potentially include chemical wastes from various Presidio facilities. Fill materials also included brick, glassware, gravel, concrete, pipes, battery caps, and plastic (Dames & Moore, 1997). Figure A-8-1 shows the site and the approximate lateral extent of the former landfill.

Two monitoring wells, LF4GW100 and LF4GW101, were installed at the LF 4 site in July and August 2000 by the Trust (Figure A-8-1) to supplement existing monitoring well LF04GW03 (EKI, 2000a). Monitoring wells LF4GW100 and LF4GW101 were completed at 22.5 and 22.8 feet bgs, respectively. Monitoring well LF4GW100 is screened within silt, silty sand, and sand units and extends 0.5 feet into weathered bedrock. Monitoring well LF4GW101 is screened within a clay layer and does not extend into the weathered bedrock. Groundwater was not encountered in either well during or after construction. Groundwater was not observed in monitoring well LF04GW03 during the construction of the other two wells. The occurrence of groundwater in monitoring wells LF04GW03, LF4GW100 and LF4GW101 is seasonal; these wells do not typically contain adequate groundwater for sampling. Additional wells were installed as part of the remedial action activities discussed in Section 3.0.

Well LF04GW03 has been sampled at irregular intervals from April 1995 to May 2005, which was the last time this well contained sufficient water to sample. Groundwater samples from well LF04GW03 have been analyzed for general chemistry parameters, TPH, metals, and TDS. LF4GW100 has never contained enough water for sampling. LF4GW101 has only been sampled once, during the First Quarter 2005 and was analyzed for all LF 4 parameters. Summaries of general chemistry, dissolved oxygen, TPH, PAH, chlorinated herbicides, OCP, PCB, VOCs, and metals results for LF 4 groundwater samples are presented in Tables A-8-1 through A-8-3.

2.0 SITE DESCRIPTION AND GEOLOGY

LF 4 is located in the southwestern portion of the Marina Groundwater Basin. Groundwater beneath LF 4 has reportedly ranged from approximately 14 to greater than 45 feet bgs (Table A-8-4). Groundwater flows in a north-northeasterly direction following the general topographic trend (Figures A-8-1 and A-8-2).

As outlined in Section 3.0, following remedial excavation, five new groundwater monitoring wells were installed in the vicinity of former LF 4. Materials encountered while drilling soil borings for installation of monitoring wells LF4GW102 through LF4GW106 generally consisted of dune sand to depths ranging between 6 to 14 feet bgs over silty sand of the Colma Formation to depths between 19 to 46.5 feet bgs. All borings were terminated in Franciscan complex shales and serpentinite to depths ranging between 40 and 48.5 feet bgs. Saturated soils were encountered at approximately 31.5 feet bgs in the boring for LF4GW106 and at a depth of 42.5 feet bgs in the soil boring for LF4GW105.

Well LF4GW102 is located upgradient of the excavated area, near the southern edge of Central Magazine Road (Figure A-8-1). Well LF4GW106 is located within the excavated portion of former LF 4. Wells LF4GW103, LF4GW104, and LF4GW105 are located downgradient of the excavated portion of former LF 4. At wells LF4GW102, LF4GW103, LF4GW104, and LF4GW106, the groundwater surface is located within the Franciscan complex bedrock. At well LF4GW105, the groundwater surface is located near the bottom of the 32.5-foot thick Colma formation, four feet above the Franciscan complex contact (Treadwell & Rollo, 2003e).

3.0 REMEDIAL ACTION

The *Remedial Action Plan and Evaluation of Alternatives (RAP) for Landfill 4 and Fill Site 5* selected excavation, recycling, and offsite disposal of impacted fill material and underlying soil, along with groundwater monitoring, as the remedial alternative for LF 4. The goal of the remediation at LF 4 was to remove all contaminated material, leaving in place soil that meets the established cleanup levels (Treadwell & Rollo, 2002e).

In accordance with the California Code of Regulations, Title 27, Subchapter 3, Section 20390, a site that has undergone clean closure (where all wastes and residues, contaminated subsoil, and other contaminated materials are removed or decontaminated at closure) must be shown to comply with the water quality protection standards or the cleanup levels presented in Section 3 of the RAP for three years.

Between 9 January and 14 February 2003, a total of 14,623 tons (approximately 11,698 yd^3) of waste material was removed from former LF 4. The majority of the material (13,551 tons) was disposed as Class I California Hazardous Waste based on soluble lead concentrations. Soil confirmation sample concentrations determined that the majority of site conditions after the removal action meet the goals presented in the RAP (Treadwell & Rollo, 2002e).

Additional soil sampling to complete the soil cleanup activities at LF 4 has been completed and documented in the *Draft Construction Completion Report Landfill 4 and Fill Site 5* (CCR) (Treadwell & Rollo, 2004f). Between 7 February and 25 April 2003, a total of 12,393 tons of waste material was removed from the former FS 5 site, with an approximate additional 40 cubic yards of Class II waste removed in September 2004. Approximately 90 percent of the fill material was disposed at Class II and Class III disposal sites and the remainder as Class I California Hazardous Waste. Soil confirmation sample concentrations or 95% UCL calculations for all compounds tested (both COC and non-COC compounds) determine that the site soil conditions meet the goals presented in the RAP and that the site is suitable for unrestricted use. Based on the remedial activities conducted, field observations, established cleanup levels, and a review and evaluation of the confirmation sampling results, LF 4 and FS 5 are recommended for construction completion. Groundwater monitoring will continue per the RAP to confirm that applicable cleanup levels are not exceeded (Treadwell & Rollo, 2002e).

Between 19 February and 5 March 2003, approximately 2,970 cubic yards of imported backfill material (Letterman Colma Backfill) was delivered to the site. The Letterman Colma backfill was used to buttress the northern side of Central Magazine Road and contour the slope for erosion control. The source for the LF 4 imported material was the Letterman redevelopment project Colma excavation spoils.

In May 2006, Treadwell & Rollo sampled the imported Letterman Colma Backfill Soil (Colma Fill) at LF 4 for OCPs in accordance with the *Field Sampling Plan to Evaluate Possible Chlordane in Letterman Colma Backfill Soil* dated 28 February 2006. The purpose of the soil sampling was to characterize the Colma Fill at LF 4 for the occurrence of chlordane above site specific soil cleanup levels. The analytical results of this sampling event are presented in the *Results of Colma Fill Sampling, Landfill 4, Fill Site 5, and Girard Street Ramp, Presidio of San Francisco, California* dated 20 February 2007 (Treadwell & Rollo, 2007).

The results of the Colma Fill sampling indicate soil cleanup level exceedances are present in Colma backfill soil at Landfill 4 at concentrations below human health residential cleanup levels, but that significantly exceed the ecological special-status cleanup levels. The Trust will discuss these exceedances with DTSC to address the potential threat to ecological receptors (Treadwell & Rollo, 2007).

Following the removal action and subsequent soil import, five new monitoring wells (LF4GW102 through LF4GW106) were installed in February 2003 in the locations shown on Figure A-8-1. The new wells were added to the Presidio Quarterly Groundwater Monitoring Program beginning with the First Quarter 2003 and were to be sampled quarterly for a minimum of three years, in accordance with the RAP. Monitoring wells LF04GW03, LF4GW100, and LF4GW101 were to be monitored for the presence of water and sampled when sufficient water is present.

4.0 GROUNDWATER MONITORING

LF 4 has eight monitoring wells (LF04GW03 and LF4GW100 through LF4GW106) associated with the LF 4 groundwater monitoring program (Figure A-8-1). First and Second Quarter 2007 groundwater elevations were measured at all LF 4 monitoring wells on 26 February and 4 June 2007, respectively (Table A-8-4).

The post-remediation groundwater monitoring requirements from the RAP have been met at all LF 4 monitoring wells for TPH, PAHs, VOCs, OCPs, and chlorinated herbicides. These analytes were not included in the proposed sampling for the First and Second Quarter 2007. Only monitoring wells LF4GW103 and LF4GW104 were proposed for sampling during the First and Second Quarter 2007 (Tables 1A and 1B), based on recent exceedences of dissolved nickel, and PCB aroclor 1260.

4.1 Groundwater-Level Measurements and Interpretation

Groundwater elevation measurements were collected on 26 March and 4 June 2007 in all LF 4 monitoring wells during the First and Second Quarters 2007, except LF4GW101 which was dry during both quarters. Groundwater elevations are summarized in Table A-8-4. Water level meters were calibrated on 26 February and 4 June 2007, and the calibration logs can be found in Appendix B. Groundwater elevation field forms can be found in Appendix C.

During the First Quarter 2007, the groundwater elevations ranged from 269.52 to 300.46 feet above PLLW in monitoring wells LF4GW105 and LF4GW102, respectively (Figure A-8-1).

During the Second Quarter 2007, the groundwater elevations ranged from 268.64 to 298.99 feet above PLLW in monitoring wells LF4GW105 and LF4GW102, respectively (Figure A-8-2).

Groundwater gradients were in a northeasterly direction and estimated to be approximately 0.10 feet per foot during the First Quarter and 0.08 feet per foot during the Second Quarter 2007. Groundwater gradients observed during the First and Second Quarters 2007 are consistent with previous monitoring events.

4.2 Monitoring Well Purging and Sampling

During the First Quarter 2007, monitoring wells LF4GW103 and LF4GW104 were sampled on 28 February 2007, in accordance with the proposed sampling schedule contained in Table 1A.

During the Second Quarter 2007, monitoring wells LF4GW103 and LF4GW104 were sampled on 5 June 2007, in accordance with the proposed sampling schedule contained in Table 1B

Purge equipment, purging volumes, and sampling equipment for each monitoring well are described in the purge records located at the conclusion of this section. Purge water was stored

for future disposal in a 2,800-gallon aboveground polyethylene storage tank located at the Central Magazine.

4.3 Groundwater Analytical Program

All groundwater samples collected were submitted to the project laboratory for the analyses shown in Tables 1A and 1B of the main text. The appropriate sampling containers, preservatives, and maximum holding times for each analytical method are shown in Table 5. Sample containers used at each well are described in the purge records located at the conclusion of this section.

5.0 GROUNDWATER ANALYTICAL RESULTS

Groundwater samples collected from LF 4 monitoring wells during the First Quarter 2007 were analyzed for general chemistry, TDS, PCBs, and 23 dissolved metals. The groundwater samples collected from LF 4 monitoring wells during the Second Quarter 2007 were analyzed for general chemistry, TDS, and 14 dissolved metals.

Based on the post-remediation groundwater requirements from the RAP being met at LF 4 monitoring wells for TPH, PAHs, VOCs, OCPs, and chlorinated herbicides, these analytes were not included in the proposed sampling for the First and Second Quarter 2007. Only monitoring wells LF4GW103 and LF4GW104 were proposed for sampling during the First and Second Quarter 2007 (Tables 1A and 1B), based on recent exceedences of dissolved nickel, PCB aroclor 1260 and fluctuating concentrations of general chemistry parameters.

5.1 Dissolved Oxygen

Dissolved oxygen results are presented in Table A-8-1. During the First Quarter 2007, dissolved oxygen was measured at 0.8 mg/L in monitoring well LF04GW103 and 0.63 mg/L in monitoring well LF04GW104. The dissolved oxygen concentrations measured during the First Quarter 2007 are within the range of concentrations previously measured within these Landfill 4 monitoring wells.

During the Second Quarter 2007, dissolved oxygen was measured at 0.22 mg/L in both monitoring well LF04GW103 and LF04GW104. The dissolved oxygen concentrations measured during the Second Quarter 2007 are within the range of concentrations previously measured within these LF 4 monitoring wells.

5.2 General Chemistry

General chemistry results are presented in Table A-8-1. General chemistry concentrations during the First and Second Quarters 2007 are generally consistent with values reported at other areas of the Presidio. However, some general chemistry concentrations are slightly above or below previous high or low concentrations within LF 4 monitoring wells. The table below

summarizes new high and low general chemistry analytical results for the First and Second Quarters 2007 when compared to historical data, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the commencement date of sampling, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2007		Units
			Minimum	Maximum	Minimum	Maximum	
General Chemistry							
LF4GW103	Alkalinity, Total	19/19	240	1,300	--	1,700	mg/L
	Bicarbonate	19/19	240	1,300	--	1,700	mg/L
	Chloride	19/19	140	601	--	740	mg/L
	Sulfate	19/19	36	428	--	460	mg/L

The majority of general chemistry concentrations listed above are only slightly outside of the range of previously reported concentrations and are therefore not considered significant. Significant detections are discussed below.

Total alkalinity and bicarbonate concentrations have been increasing over time within LF4GW103 and the Second Quarter 2007 detected concentrations of 1,700 mg/L are the highest to date.

5.3 PCB Results

PCB results, along with RAP-specified cleanup levels, are presented in Table A-8-2. LF4GW103 and LF4GW104 groundwater samples collected during the First Quarter 2007 were analyzed for PCBs. PCBs were not detected in the samples collected during the First Quarter 2007. PCBs were not scheduled for analysis during the Second Quarter 2007. Only chlorodiphenyl (PCB aroclor 1260) has been detected once at 1 µg/L in the Third Quarter 2005 QC duplicate sample for LF4GW104. No other PCB detections have occurred in LF 4 groundwater samples.

5.4 Dissolved Metals Results

Dissolved metals results, along with RAP-specified cleanup levels, are presented in Table A-8-3. Dissolved nickel was not detected above its cleanup level within LF4GW103 for the fourth consecutive monitoring event.

The table below summarizes new high and low dissolved metals results for the First and Second Quarters 2007 within LF4GW103 and LF4GW104 when compared to historical data, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the commencement date of sampling, and the number of duplicate analyses performed. All detected concentrations for metals were below the established cleanup levels.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2007		Units
			Minimum	Maximum	Minimum	Maximum	
Metals							
LF4GW103	Calcium	19/19	1,700	160,000	--	200,000	ug/L
	Magnesium	19/19	4,100	470,000	--	540,000	ug/L
	Potassium	18/19	1,900	8,300	1,300	--	ug/L
	Total Dissolved Solids	18/18	370	2,890	--	2,940	mg/L
LF4GW104	Potassium	18/19	1,500	5,300	1,400	--	ug/L

Calcium, magnesium, and total dissolved solids were detected outside of historical bounds at LF4GW103 during the First and Second Quarters 2007; however, no metals concentrations were detected above applicable cleanup levels. With the exception of nickel in monitoring well LF4GW103, no dissolved metal concentrations within LF 4 groundwater samples have ever exceeded RAP-specified cleanup levels.

6.0 CONCLUSIONS & RECOMMENDATIONS

No groundwater cleanup levels were exceeded for the fourth consecutive groundwater monitoring event at LF 4. If no groundwater cleanup levels are exceeded during the Third Quarter 2007 sampling event, this site will be recommended for closure.

Table A-8-1
Results of General Chemistry Analyses
Landfill 4
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N[2]	Nitrate + Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	Field	E300.0/ E340.2	E300.0/ E353.2	E300.0/ E353.2	353.2/ E353.2	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
LF04GW03	05/24/05	120	120	65	0.9	< 0.1	0.33	< 0.05	NA	39
	03/18/05	83	83	64	0.9	< 0.1	4	< 0.05	NA	37
	03/17/04	41	41	73	3.2	< 0.1	17	< 0.05	< 0.05	74
	05/13/99	58.8	58.8	71.4	9.11 (J35)	NA	NA	NA	2.83 (J12)	39.5
	08/12/98	54.9	54.9	61	7.4	0.146	NA	NA	< 0.05	18.8
	04/13/98	47	47	55	4.89	0.1	NA	NA	< 0.05	22
	01/12/98	25.3	25.3	172	NM	NA	NA	NA	2.3	47
	05/06/97	69	69	79	6.25	0.1	NA	NA	< 0.05	22
	02/04/97	73	73	57	6.41	0.1	NA	NA	1.5	31
	05/29/96	100	100	88	NM	NA	NA	NA	0.1	38
	03/12/96	99	99	41	NM	0.312	4.8	NA	NA	29
	04/04/95	107	107	63.6	NM	NA	18	NA	NA	56.6
LF4GW101	03/17/05	37	37	37	1.5	< 0.1	0.11	< 0.05	NA	12
LF4GW102	08/31/05	230	230	92	0.1	< 0.1	1.4	< 0.05	NA	61
DUP0831053A	08/31/05	230	230	90	--	< 0.1	1.4	< 0.05	NA	61
	03/17/05	250	250	130	0.1	< 0.1	1.2	< 0.05	NA	75
DUP0317053B	03/17/05	260	260	120	--	< 0.1	1.2	< 0.05	NA	72
LF4GW102CL	03/17/05	272	272	123	--	< 0.3 U	1.22	< 1 U	NA	71.9
	12/15/04	340	340	170	0.1	< 0.1	1.3	< 0.05	NA	85
DUP1215042C	12/15/04	340	340	170	--	< 0.1	1.2	< 0.05	NA	86
LF4GW102CL	12/15/04	334	334	160	--	< 0.3 U	NA	NA	1.22	96.7
	08/11/04	270	270	130	0.12	< 0.1	0.97	< 0.05	NA	75
DUP0811042A	08/11/04	280	280	130	--	< 0.1	0.96	< 0.05	NA	75
LF4GW102CL	08/11/04	274	274	130	--	< 0.1	NA	NA	0.81 J-	77
	05/25/04	260	260	130	0.69	< 0.1	0.92	< 0.05	NA	77
DUP0525042A	05/25/04	250	250	130	--	< 0.1	0.94	< 0.05	NA	75
	03/09/04	340	340	160	0.21	< 0.1	1.1	< 0.05	NA	79
DUP0309042A	03/09/04	340	340	160	--	< 0.1	1.1	< 0.05	NA	83

Table A-8-1
Results of General Chemistry Analyses
Landfill 4
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N[2]	Nitrate + Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	Field	E300.0/ E340.2	E300.0/ E353.2	E300.0/ E353.2	353.2/ E353.2	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
LF4GW102	12/04/03	370	370	160	0.6	< 0.1	1	< 0.05	NA	80
DUP1204031A	12/04/03	370	370	160	--	< 0.1	1	< 0.05	NA	80
LF4GW102CL	12/04/03	350	350	173	--	< 0.1	1.4 J-	< 0.05	1.4 J-	83.6
	08/21/03	280	280	120	1.2	< 0.1	1	< 0.05	NA	72
	06/09/03	290	290	120	0.4	< 0.1	1.1	< 0.05	NA	74
DUP0609033A	06/09/03	260	260	130	--	< 0.1	1.1	< 0.05	NA	79
LF4GW102CL	06/09/03	280	280	120	--	0.66	1	< 0.05	1	66
	03/20/03	300	300	130	0.5	< 0.1	1.2	< 0.05	NA	72
DUP0320031A	03/20/03	280	280	130	--	< 0.1	1.2	< 0.05	NA	73
LF4GW103	06/05/07	1,700	1,700	740	0.22	< 0.2	< 0.1	< 0.1	NA	460
DUP0605073A	06/05/07	1,600	1,600	740	--	< 0.2	< 0.1	< 0.1	NA	450
	02/28/07	1,700	1,700	700	0.80	< 0.1	< 0.05	< 0.1	NA	420
	12/05/06	1,300	1,300	570	0.7	< 0.1	< 0.05	< 0.1	NA	380
	08/16/06	1,200	1,200	470	0.47	< 0.1	0.09	< 0.05	NA	350
	05/25/06	1,200	1,200	480	3.71	0.1	0.07	< 0.05	NA	390
	03/07/06	1,300	1,300	510	0.4	< 0.1	< 0.05	< 0.1	NA	410
DUP0307063A	03/07/06	1,300	1,300	500	--	< 0.1	< 0.05	< 0.1	NA	410
LF4GW103CL	03/07/06	1,190	1,190	601	--	< 1 U	0.046	< 0.02 U	NA	428
	08/31/05	1,100	1,100	300	0.2	< 0.1 UJ	0.06	< 0.05 UJ	NA	330
	03/15/05	290	290	140	0.1	< 0.1	< 0.05	< 0.05	NA	44
	12/14/04	630	630	170	0.2	0.11	< 0.05	< 0.05	NA	200
	08/10/04	330	330	140	0.27	0.12	< 0.05	< 0.05	NA	41
	05/25/04	280	280	140	0.92	0.13	< 0.05	< 0.05	NA	36
	03/09/04	380	380	160	0.29	0.15	< 0.05	< 0.05	NA	97
	12/02/03	530	530	180	0.7	0.15	< 0.05	< 0.05	NA	160
	08/13/03	340	340	140	0.1	< 0.5	< 0.25 UJ	< 0.25 UJ	NA	37
	06/09/03	260	260	170	0.5	< 0.1	< 0.05	< 0.05	NA	43
	03/20/03	240	240	240	0.4	0.32	< 0.05	< 0.05	NA	70

Table A-8-1
Results of General Chemistry Analyses
Landfill 4
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N[2]	Nitrate + Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	Field	E300.0/ E340.2	E300.0/ E353.2	E300.0/ E353.2	353.2/ E353.2	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
LF4GW104	06/05/07	620	620	290	0.22	< 0.1	0.49	< 0.05	NA	160
	02/28/07	640	640	320	0.63	< 0.1	0.46	< 0.05	NA	160
	12/05/06	620	620	320	0.8	< 0.1	0.64	< 0.05	NA	160
	08/16/06	630	630	340	0.2	< 0.1	0.59	< 0.05	NA	170
	05/25/06	650	650	350	2.4	< 0.1	0.62	< 0.05	NA	170
	03/07/06	670	670	360	0.11	< 0.1	0.53	< 0.05	NA	170
	08/30/05	690	690	320	0.2	< 0.1 UJ	0.69	< 0.05 UJ	NA	150
DUP0830053B	08/30/05	680	680	320	--	< 0.1 UJ	0.69	< 0.05 UJ	NA	150
LF4GW104CL	08/30/05	670	670	308	--	< 0.3 U	1.20	< 1 U	NA	151
	03/15/05	650	650	290	0.1	< 0.1	0.6	< 0.05	NA	140
	12/14/04	720	720	290	0.1	< 0.1	0.41	< 0.05	NA	140
	08/10/04	690	690	260	0.15	< 0.1	0.32	< 0.05	NA	130
	05/25/04	580	580	260	0.33	< 0.1	0.31	< 0.05	NA	140
	03/09/04	630	630	250	0.07	< 0.1	0.34	< 0.05	NA	140
	12/02/03	680	680	250	0.2	< 0.1	0.3	< 0.05	NA	140
	08/13/03	640	640	240	0.3	< 0.5	< 0.25 UJ	< 0.25 UJ	NA	140
	06/09/03	640	640	250	0.5	0.15	0.37	< 0.05	NA	140
DUP0609031A	06/09/03	600	600	250	--	< 0.1	0.53	< 0.05	NA	140
	03/20/03	510	510	230	0.2	< 0.1	0.35	1.3	NA	140
LF4GW105	08/31/05	310	310	150	0.2	< 0.1	1.4	< 0.05	NA	66
	03/15/05	340	340	180	0.1	< 0.1	1.6	< 0.05	NA	73
	12/14/04	370	370	170	0.1	< 0.1	2.1	< 0.05	NA	73
	08/10/04	350	350	280	0.12	< 0.1	1.8	< 0.05	NA	84
	05/25/04	330	330	140	0.59	< 0.1	1.3	< 0.05	NA	60
	03/09/04	380	380	130	0.18	< 0.1	1.5	< 0.05	NA	55
	12/02/03	420	420	130	0.3	< 0.1	1.6	< 0.05	NA	51
	08/13/03	440	440	120	0.3	< 0.5	1.4 b,J-	< 0.25 UJ	NA	59
	06/09/03	410	410	140	0.5	0.32	1.7	< 0.05	NA	56
	03/20/03	390	390	130	2.2	< 0.1	1.5	< 0.05	NA	51

Table A-8-1
Results of General Chemistry Analyses
Landfill 4
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N[2]	Nitrate + Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	Field	E300.0/ E340.2	E300.0/ E353.2	E300.0/ E353.2	353.2/ E353.2	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
LF4GW106	08/31/05	500	500	130	0.2	< 0.1	0.81	< 0.05	NA	87
	03/15/05	500	500	150	0.1	< 0.1	0.88	< 0.05	NA	92
	12/14/04	540	540	150	0.2	< 0.1	0.85	< 0.05	NA	96
	08/10/04	560	560	140	0.06	< 0.1	0.8	< 0.05	NA	95
	05/25/04	520	520	150	0.33	< 0.1	0.74 J	< 0.05 UJ	NA	98
	03/09/04	600	600	150	0.31	< 0.1	0.7	< 0.05	NA	99
	12/02/03	680	680	140	0.4	< 0.1	0.56	< 0.05	NA	96
	08/13/03	700	700	140	0.3	< 0.5	0.42 b,J-	< 0.25 UJ	NA	100
	06/09/03	640	640	150	0.3	< 0.1	0.57	< 0.05	NA	100
	03/20/03	540	540	160	3.8	< 0.1	0.68	< 0.05	NA	99

Notes
mg/L - milligrams per liter
NA - not analyzed
NM - not measured
1 - The identified analytical method(s) are for analyses performed in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Nitrite as N prior to May 2001 analysis includes nitrate as N.
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-8-2
Results of TPH, PAH, Chlorinated Herbicide, OCP, PCB, and VOC Analyses
Landfill 4
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})	PAHs			All Chlorinated Herbicides	OCPs and PCBs			Volatile Organic Compounds (VOCs)								
					Fluor-anthene	Phen-anthrene	All Other PAHs		beta-BHC	Chloro-diphenyl (PCB-1260)	All Other OCPs / PCBs	Acetone	Benzene	Carbon Disulfide	Chloro-benzene	Dibromo-chloro-methane	PCE	Toluene	TCE	All Other VOCs
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8270/ SW8270C/ SW8310	SW8270/ SW8270C/ SW8310	SW8270/ SW8270C/ SW8310	SW8150/ SW8151/ SW8151A	SW8080/ SW8081/ SW8081A/ SW8082	SW8082	SW8080/ SW8081/ SW8081A/ SW8082	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Level		**770**	**880**	**1,200**	**1,500** [2]	**230** [3]	**--**	**--**	**0.037** [4]	**0.5**	**--**	**610** [2]	**1**	**1,000** [2]	**70**	**80** [3]	**5**	**150**	**5**	**--**
LF04GW03	05/24/05	NA	NA	NA	< 0.39	< 0.49	ND	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/18/05	< 50	< 50	< 300	< 0.4	< 0.5	ND	ND	< 0.05	< 0.38 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/17/04	< 50	< 50	< 300	< 0.39	< 0.49	ND	ND	< 0.05	< 0.49	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/13/99	NA	180 (J25)	< 300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/11/99	< 50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5	< 5	0.79 (J32)	< 0.5	0.87 (J32)	< 0.5	**6.2 (J32)**	ND
	08/12/98	< 50	51 (J25)	< 50	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/13/98	< 50	< 50	1,000 (J25)	< 10	< 10	ND	ND	< 0.05	< 1	ND	NA	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	01/12/98	< 50	< 50	< 300	< 10	< 10	ND	ND	< 0.05	< 1	ND	NA	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/06/97	< 50	< 50	< 300	< 10	< 10	ND	ND	< 0.05	< 1	ND	NA	0.4 (J28)	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/04/97	< 50	< 50	< 300	< 10	< 10	ND	ND	< 0.05	< 1	ND	NA	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/29/96	< 50	< 50	< 300	< 10	< 10	ND	ND	< 0.05	< 1	ND	< 10	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/12/96	< 50	< 50	< 300 (U16)	< 10	< 10	ND	ND	< 0.005	< 0.1	ND	< 10	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
LF4GW101	03/17/05	< 50	< 50	< 300	< 0.39	< 0.49	ND	ND	< 0.05	< 0.49	ND	< 10 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
LF4GW102	08/31/05	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.5	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0831053A	08/31/05	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.49	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/17/05	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.38	ND	< 10 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0317053B	03/17/05	< 50	< 50	< 300	< 0.39	< 0.49	ND	ND	< 0.05	< 0.39	ND	< 10 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
LF4GW102CL	03/17/05	< 50 U	< 50 U	< 300 U	< 0.2 U	< 1 U	ND	ND	< 0.05 U	< 1 U	ND	< 10 U	< 0.5 U	< 5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	ND
	12/15/04	NA	NA	NA	< 0.4	< 0.5	ND	ND	ND	NA	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP1215042C	12/15/04	NA	NA	NA	< 0.4	< 0.5	ND	ND	ND	NA	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
LF4GW102CL	12/15/04	NA	NA	NA	< 0.2 U	< 1 U	ND	ND	ND	NA	ND	< 10 U	< 0.5 U	< 5 U	< 0.5 U	< 0.5 U	< 0.5	< 0.5 U	< 0.5	ND
	08/11/04	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.48 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0811042A	08/11/04	< 50	< 50	< 300	< 0.38	< 0.47	ND	ND	< 0.05	< 0.49 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
LF4GW102CL	08/11/04	< 100	< 100 J-	< 400 UJ	< 0.2	< 1	ND	ND	< 0.02	< 1 UJ	ND	NA	< 1	NA	< 1	< 1	< 1	< 1	< 2 UJ	ND
	05/25/04	< 50	< 50	< 300	< 0.38	< 0.47	ND	ND	< 0.05 UJ	< 0.47 UJ	ND	29	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0525042A	05/25/04	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05 UJ	< 0.48 UJ	ND	27	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/09/04	< 50	< 50	< 300	< 0.38	< 0.47	ND	ND	< 0.05 UJ	< 0.48 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0309042A	03/09/04	< 50	< 50	< 300	< 0.38	< 0.47	ND	ND	< 0.05 UJ	< 0.47 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/03	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.48 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP1204031A	12/04/03	< 50	< 50	< 300	0.02 J	< 0.49	ND	ND	< 0.05	< 0.49 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
LF4GW102CL	12/04/03	< 50	< 48 UJ	< 240 UJ	< 0.095 UJ	0.24 J-	ND	ND	< 0.048 UJ	< 0.96 UJ	ND	< 10 R	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/21/03	< 50	< 50	< 300	0.04 J	< 0.47	ND	ND	< 0.05	< 0.49 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/09/03	< 50	< 50	< 300	0.02 J	< 0.48	ND	ND	< 0.05	< 0.48 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0609033A	06/09/03	< 50	< 50	< 300	0.02 J	< 0.48	ND	ND	< 0.05 UJ	< 0.48	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
LF4GW102CL	06/09/03	< 50	< 50	< 250	< 0.096	0.11	ND	ND	**0.062 J-**	< 0.99 R	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/20/03	< 50	< 50	< 300	< 9.5	< 9.5	ND	ND	**0.2**	< 0.48	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0320031A	03/20/03	< 50	< 50	< 300	< 9.5	< 9.5	ND	ND	**0.1**	< 0.48 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
LF4GW103	02/28/07	NA	NA	NA	NA	NA	NA	NA	NA	< 0.48	NA / ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/16/06	NA	NA	NA	NA	NA	NA	NA	NA	< 0.47	NA / ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/07/06	NA	NA	NA	NA	NA	NA	NA	NA	< 0.48	NA / ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
DUP0307063A	03/07/06	NA	NA	NA	NA	NA	NA	NA	NA	< 0.47	NA / ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
LF4GW103CL	03/07/06	NA	NA	NA	NA	NA	NA	NA	NA	< 1 U UJ	NA / ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/05	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.48	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/15/05	< 50	< 50	< 300	< 0.4	< 0.5	ND	ND	< 0.05	< 0.49	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/14/04	NA	NA	NA	< 0.39	< 0.49	ND	ND	ND	NA	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/10/04	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.47	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/25/04	< 50	< 50	< 300	< 0.38	< 0.47	ND	ND	< 0.05 UJ	< 0.47 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/09/04	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05 UJ	< 0.48 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 50	< 50	< 300	< 0.38	< 0.47	ND	ND	< 0.05	< 0.49	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 50	< 50	< 300	< 0.38	< 0.47	ND	ND	< 0.05 UJ	< 0.48 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/09/03	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.49	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/20/03	< 50	< 50	< 300	< 9.5	< 9.5	ND	ND	< 0.05	< 0.48	ND	< 10	< 0.5	0.7	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND

Table A-8-2
Results of TPH, PAH, Chlorinated Herbicide, OCP, PCB, and VOC Analyses
Landfill 4
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})	PAHs			All Chlorinated Herbicides	OCPs and PCBs			Volatile Organic Compounds (VOCs)								
					Fluor-anthene	Phen-anthrene	All Other PAHs		beta-BHC	Chloro-diphenyl (PCB-1260)	All Other OCPs / PCBs	Acetone	Benzene	Carbon Disulfide	Chloro-benzene	Dibromo-chloro-methane	PCE	Toluene	TCE	All Other VOCs
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8270/ SW8270C/ SW8310	SW8270/ SW8270C/ SW8310	SW8270/ SW8270C/ SW8310	SW8150/ SW8151/ SW8151A	SW8080/ SW8081/ SW8081A/ SW8082	SW8082	SW8080/ SW8081/ SW8081A/ SW8082	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Level		**770**	**880**	**1,200**	**1,500** [2]	**230** [3]	**--**	**--**	**0.037** [4]	**0.5**	**--**	**610** [2]	**1**	**1,000** [2]	**70**	**80** [3]	**5**	**150**	**5**	**--**
LF4GW104	02/28/07	NA	NA	NA	NA	NA	NA	NA	NA	< 0.48	NA / ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/16/06	NA	NA	NA	NA	NA	NA	NA	NA	< 0.47	NA / ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/07/06	NA	NA	NA	NA	NA	NA	NA	NA	< 0.48	NA / ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/30/05	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.48 UJ	ND	< 10 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0830053B	08/30/05	< 50	< 50	< 300	< 0.39	< 0.49	ND	ND	< 0.05	< 0.47 UJ	ND	< 10 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
LF4GW104CL	08/30/05	< 50 U	< 50 U	< 300 U	< 0.2 U UJ	< 1 U UJ	ND	ND	< 0.05 U	**1 J-**	ND	< 10 U	< 0.5 U	< 5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	ND
	03/15/05	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.48	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/14/04	NA	NA	NA	< 0.39	< 0.49	ND	ND	ND	NA	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/10/04	< 50	< 50	< 300	< 0.38	< 0.47	ND	ND	< 0.05	< 0.47	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/25/04	< 50	< 50	< 300	< 0.38	< 0.47	ND	ND	< 0.05 UJ	< 0.48 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/09/04	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05 UJ	< 0.47 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.48	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05 UJ	< 0.47	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/09/03	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.49 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0609031A	06/09/03	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.48	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/20/03	< 50	< 50	< 300	< 9.5	< 9.5	ND	ND	< 0.05 UJ	< 0.47 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	0.5	< 0.5	1.3	< 0.5	ND
LF4GW105	08/31/05	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.48	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/15/05	< 50	< 50	< 300	< 0.38	< 0.47	ND	ND	< 0.05	< 0.56	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/14/04	NA	NA	NA	< 0.38	< 0.47	ND	ND	ND	NA	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/10/04	< 50	< 50	< 300	< 0.4	< 0.5	ND	ND	< 0.05	< 0.48	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/25/04	< 50	< 50	< 300	< 0.38	< 0.47	ND	ND	< 0.05 UJ	< 0.47	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/09/04	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.48	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 50	< 50	< 300	< 0.39	< 0.49	ND	ND	< 0.05	< 0.48	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.48	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/09/03	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.47	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/20/03	< 50	< 50	< 300	< 9.5	< 9.5	ND	ND	< 0.05	< 0.48	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
LF4GW106	08/31/05	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.48	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/15/05	< 50	< 50	< 300	< 0.39	< 0.49	ND	ND	< 0.05	< 0.48	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/14/04	NA	NA	NA	< 0.38	< 0.48	ND	ND	ND	NA	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/10/04	< 50	< 50	490	< 0.38	< 0.47	ND	ND	< 0.05	< 0.47	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/25/04	< 50	< 50	< 300	< 0.38	< 0.47	ND	ND	< 0.05	< 0.47	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/09/04	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.48	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 50	< 50	< 300	< 0.38	< 0.47	ND	ND	< 0.05	< 0.49	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 50	< 50	< 300	< 0.38	< 0.47	ND	ND	< 0.05	< 0.48 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/09/03	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.49	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/20/03	< 50	< 50	< 300	< 9.5	< 9.5	ND	ND	< 0.05	< 0.48	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND

Notes
µg/L - micrograms per liter
NA - not analyzed
ND - not detected
1 - The identified analytical method(s) are for analyses performed in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - USEPA Region IX tap water preliminary remediation goal (PRG).
3 - From Table 7-6 of the Cleanup Levels Document.
4 - The RAP (Treadwell & Rollo, 2002e) does not list a cleanup level for beta-BHC; however, the RAP states that when chemicals are encountered in groundwater and cleanup levels are not listed, the default should be Tap Water PRGs. The Tap Water PRG for beta-BHC (HCH-beta) is 0.037 µg/L.
VOC - volatile organic compound
TPH - total petroleum hydrocarbons
PCE - tetrachloroethene
TCE - trichloroethene
PCBs - polychlorinated biphenyls
PAHs - polycyclic aromatic hydrocarbons
OCPs - organochlorine pesticides
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-8-3
Results of Dissolved Metals Analyses
Landfill 4
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Level		**36,000** [2]	**6**	**50**	**1,000**	**4**	**5**	--	**50**	**730** [2]	**1,000**	--	**11,000** [2]	**15**	--	**880** [2]	**2**	**100**	--	**50**	**100**	--	**2**	**260** [2]	**5,000**	--
LF04GW03	05/24/05	< 100 UJ	< 1	< 5	38	< 2	< 1	26,000	< 10	< 10	1.1	NA	< 100	< 3	25,000	23	< 0.2	21	1,800	< 5	< 1	60,000	< 1	< 10	< 20	340
	03/18/05	< 100	< 1	< 5	25	< 2	< 1	19,000	< 10	< 10	1.4	NA	100	< 3	17,000	< 10	< 0.2	< 20	2,400	< 5	< 1	33,000	< 1	< 10	< 20	250 J-
	03/17/04	< 100	< 1	< 5	39	< 2	< 1	34,000	< 10	< 10	1.2	NA	< 100	< 3	29,000	< 10	< 0.2	< 20	1,500	< 5	< 1 UJ	39,000	< 1	< 10	< 20	440
	05/13/99	< 100	< 5	< 5	22	< 4	< 2	11,600	< 10	< 10	< 10	NA	< 100	< 3	13,300	31	NA	< 20	< 5,000	< 5	< 2	49,400	< 2	< 10	< 20	307
	08/12/98	< 100	< 5	< 5	20	< 4	< 2	12,600	< 10	< 10	< 10	NA	442	< 3	13,800	394	< 0.2	< 20	< 5,000	< 5	< 2	41,300	< 2	< 10	< 20	248
	04/13/98	110	< 5	< 5	16	< 4	< 2	9,400	< 10	< 10	12	NA	< 100	< 3	13,000	27	< 0.2	23	< 5,000	< 5	< 2	32,000	< 2	< 10	< 20	220
	01/12/98	< 100	< 5	< 5	33	< 4	< 2	25,500	< 10	< 10	< 10	NA	< 100	< 3	26,800	12	< 0.2	< 20	< 5,000	< 5	< 2	68,900	< 2	< 10	< 20	523
	05/06/97	< 100	< 5	< 5	19	< 4	< 2	15,000	< 10	< 10	< 10	NA	< 100	< 3	16,000	70	< 0.2	< 20	< 5,000	< 5	< 2	43,000	< 2	< 10	< 20	320
	02/04/97	< 100	< 5	< 5	22	< 4	< 2	14,000	< 10	< 10	< 10	NA	< 100	< 3	18,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	47,000	< 2	< 10	< 20	330 (J29)
	05/29/96	< 100	< 5	< 5	30	< 2	< 0.5	22,000	2	< 10	2	NA	100	< 1	20,000	40	< 0.2	14	< 5,000	< 5	< 0.5	58,000	< 2	< 10	30	NA
	03/12/96	130	< 5	< 5	27	< 2	< 0.5	16,400	3	< 10	3	NA	167	2	17,300	< 10	< 0.2	19	< 5,000	< 5	< 0.5	47,000	< 2	< 10	< 20	NA
	04/04/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	274
LF4GW101	03/17/05	250	< 1	< 5	< 10	< 2	< 1	5,300	< 10	< 10	1.5	NA	880	< 3	7,200	140	< 0.2	30	890	< 5	< 1	25,000	< 1	< 10	< 20	220 J-
LF4GW102	08/31/05	< 100	< 1	< 5	66	< 2	< 1	22,000	< 10	< 10	< 1	NA	190	< 3	57,000	17	< 0.2	< 20	940 J	< 5	< 1	49,000	< 1	< 10	< 20	590
DUP0831053A	08/31/05	< 100	< 1	< 5	67	< 2	< 1	23,000	< 10	< 10	< 1	NA	190	< 3	63,000	16	< 0.2	< 20	970 J	< 5	< 1	53,000	< 1	< 10	< 20	580
	03/17/05	< 100	< 1	< 5	36	< 2	< 1	21,000 J	< 10	< 10	2.9	NA	< 100	< 3	39,000	10	< 0.2	< 20	1,200	< 5	< 1	44,000	< 1	< 10	< 20	620 J-
DUP0317053B	03/17/05	< 100	< 1	< 5	33	< 2	< 1	20,000 J	< 10	< 10	1.4	NA	< 100	< 3	38,000	< 10	< 0.2	< 20	1,100	< 5	< 1	44,000	< 1	< 10	< 20	540 J-
LF4GW102CL	03/17/05	< 100 U	< 2 U	< 2 U	40.1	< 1 U	< 1 U	24,500	10.6	< 1 U	< 2 U	NA	< 100 U	< 1 U	46,300	11.4	< 0.2 U	5.38	< 5,000 UN	< 2 U	< 1 U	52,900 J	< 1 U	< 10 U	< 20 U	587
	12/15/04	< 100	< 1	< 5	110	< 2	< 1	17,000 J	11	< 10	< 1	NA	< 100	< 3	71,000	22	< 0.2	< 20	1,100	< 5	< 1	120,000	< 1 UJ	< 10	< 20	770
DUP1215042C	12/15/04	< 100	< 1	< 5	110	< 2	< 1	38,000 J	12	< 10	< 1	NA	100	< 3	110,000	22	< 0.2	< 20	1,100	< 5	< 1	69,000	< 1 UJ	< 10	< 20	800
LF4GW102CL	12/15/04	< 100 U	< 2 U	< 2 U	121	< 1 U	< 1 U	42,900	11.6	< 1 U	< 2 U	NA	< 100 U	< 1 U	113,000	22.1	< 0.2 U	4.9	< 5,000 U	< 2 U	< 1 U	66,900	< 1 U	< 10 U	< 20 U	792
	08/11/04	< 100	< 1	< 5	65 J	< 2	< 1	34,000	10	< 10	< 1	NA	< 100	< 3	78,000	79	< 0.2	< 20	1,200	< 5	< 1	56,000	< 1	< 10	< 20	590
DUP0811042A	08/11/04	< 100	< 1	< 5	67 J	< 2	< 1	34,000	10	< 10	< 1	NA	< 100	< 3	77,000	96	< 0.2	< 20	1,200	< 5	< 1	54,000	< 1	< 10	< 20	610
LF4GW102CL [3]	08/11/04	< 11	< 10	< 40	54	< 10	< 10	24,000	11	< 10	< 10	NA	< 10	< 50	67,000	68	< 5	< 30	1,100	< 20	< 10	53,000	< 50	< 10	< 30	749
	05/25/04	< 100	< 1	< 5	80	< 2	< 1	36,000	12	< 10	< 1	NA	< 100	< 3	90,000	36	< 0.2	< 20	1,100	< 5	< 1	63,000	< 1	< 10	< 20	680
DUP0525042A	05/25/04	< 100	< 1	< 5	82	< 2	< 1	36,000	12	< 10	< 1	NA	< 100	< 3	89,000	39	< 0.2	< 20	1,200	< 5	< 1	62,000	< 1	< 10	< 20	670
	03/09/04	< 100	2.1	< 5	81	< 2	< 1	46,000	12	< 10	1.2	NA	< 100	< 3	110,000	43	< 0.2	< 20	1,400 J	< 5	< 1 UJ	65,000	< 1	< 10	< 20	730
DUP0309042A	03/09/04	< 100	2.4	< 5	88	< 2	< 1	45,000	12	< 10	< 1	NA	< 100	< 3	110,000	36	< 0.2	< 20	1,300 J	< 5	< 1 UJ	65,000	< 1	< 10	< 20	690
	12/04/03	< 100	< 1	< 5	110	< 2	< 1	35,000	12	< 10	< 1	NA	110	< 3	110,000	43	< 0.2	< 20	1,200	< 5	< 1	66,000	< 1	< 10	< 20	760
DUP1204031A	12/04/03	< 100	< 1	< 5	100	< 2	< 1	36,000	12	< 10	< 1	NA	100	< 3	110,000	49	< 0.2	< 20	1,200	< 5	< 1	65,000	< 1	< 10	< 20	660
LF4GW102CL	12/04/03	< 1000	< 5	6.5	96	< 1	< 1	41,000	11	< 7	< 10	NA	< 500	< 3	100,000	41	< 0.2	< 10	1,500	< 5	< 1	63,000	< 2	< 10	< 20	710
	08/21/03	< 100	2.3	< 5	53	< 2	< 1	35,000	11	< 10	< 1	NA	180	< 3	72,000	61	< 0.2	< 20	1,300	< 5	< 1 UJ	51,000	< 1	< 10	< 20 UJ	450
	06/09/03	< 100	< 1	< 5	48	< 2	< 1	34,000	12	< 10	< 1	NA	< 100	< 3	80,000	45	< 0.2	< 20	1,300	< 5	< 1 UJ	55,000	< 1	< 10	< 20	620
DUP0609033A	06/09/03	< 100	< 1	< 5	48	< 2	< 1	34,000	12	< 10	< 1	NA	< 100	< 3	79,000	46	< 0.2	< 20	1,300	< 5	< 1 UJ	54,000	< 1	< 10	< 20	680
LF4GW102CL	06/09/03	< 100	< 5	2.3	45	< 1	< 1	35,000	8	1	< 5	NA	1,300	< 3	76,000	77	< 0.2	7.3	1,600	< 5	< 1	55,000	< 2	NA	26	820 J
	03/20/03	< 100	< 1	< 1	68	< 1	< 1	34,000 J-	13	< 1	< 1	10	< 100	< 3	84,000	76	< 0.2	7.5	2,200	< 5	< 1	55,000	< 1	< 10	< 10	NA
DUP0320031A	03/20/03	< 100	1.1	< 1	69	< 1	< 1	1,700 J-	12	< 1	< 1	10	< 100	< 3	4,400	73	< 0.2	7.3	2,100	< 5	< 1	2,800	< 1	< 10	< 10	NA

Table A-8-3
Results of Dissolved Metals Analyses
Landfill 4
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Level		**36,000** [2]	**6**	**50**	**1,000**	**4**	**5**	**--**	**50**	**730** [2]	**1,000**	**--**	**11,000** [2]	**15**	**--**	**880** [2]	**2**	**100**	**--**	**50**	**100**	**--**	**2**	**260** [2]	**5,000**	**--**
LF4GW103	06/05/07	< 100	NA	< 5	NA	NA	< 1	180,000 J+	< 10	NA	< 1	NA	< 100	< 3	460,000	33	NA	40	1,400	NA	NA	170,000	NA	NA	< 20	2,940 J
DUP0605073A	06/05/07	< 100	NA	< 5	NA	NA	< 1	200,000 J+	< 10	NA	< 1	NA	< 100	< 3	490,000	35	NA	41	1,500	NA	NA	170,000	NA	NA	< 20	2,790 J
	02/28/07	< 100	NA	< 5	NA	NA	< 1	180,000	< 10	NA	< 1	NA	< 100	< 3	540,000	26	NA	48	1,300	NA	NA	150,000	NA	NA	< 20	2,890
	02/28/07	< 100	NA	< 5	NA	NA	< 1	180,000	< 10	NA	< 1	NA	< 100	< 3	540,000	26	NA	48	1,300	NA	NA	150,000	NA	NA	< 20	2,890
	12/05/06	< 100	NA	< 5	NA	NA	< 1	160,000	< 10	NA	< 1	NA	< 100	< 3	420,000	79	NA	100	1,900 J	NA	NA	150,000	NA	NA	< 20	2,480 J+
	08/16/06	< 100	NA	6.2	NA	NA	< 1	150,000	< 10	NA	2.6	NA	240	< 3	410,000	16	NA	100	2,100	NA	NA	160,000	NA	NA	< 20	2,190
	05/25/06	< 100 UJ	NA	< 5	NA	NA	< 1	150,000	< 10	NA	2	NA	< 100	< 3	390,000	37	NA	**140**	1,900	NA	NA	160,000	NA	NA	< 20	2,640
	03/07/06	< 100	NA	< 5	NA	NA	< 1	140,000	< 10	NA	2.3	NA	510	< 3	390,000	85	NA	**150**	2,000	NA	NA	160,000	NA	NA	< 20	2,890
DUP0307063A	03/07/06	< 100	NA	< 5	NA	NA	< 1	140,000	< 10	NA	2.1	NA	470	< 3	400,000	80	NA	**150**	1,900	NA	NA	160,000	NA	NA	< 20	2,600
LF4GW103CL	03/07/06	< 100 U	NA	2.9	NA	NA	< 1 U	160,000	< 10 U	NA	2.3	NA	< 100 U	< 1 U	470,000	79	NA	**133**	< 5,000 U	NA	NA	190,000	NA	NA	< 20 U	2,730 J+
	08/31/05	< 100	< 1	< 5	260	< 2	< 1	110,000	< 10	< 10	1.1	NA	870	< 3	330,000	170	< 0.2	**220**	3,200 J	< 5	< 1	130,000	< 1	< 10	52	1,900
	03/15/05	< 100	< 1	< 5	27	< 2	< 1	27,000	< 10	< 10	< 1	NA	< 100	< 3	81,000	48	< 0.2	46	2,000	< 5	< 1	61,000	< 1	< 10	< 20	510
	12/14/04	< 100	< 1	5.3	62	< 2	< 1	61,000 J	< 10	< 10	< 1	NA	160	< 3	160,000	140	< 0.2	**120**	3,000	< 5	< 1	97,000	< 1	< 10	< 20	370
	08/10/04	< 100	< 1	< 5	28 J	< 2	< 1	32,000	< 10	< 10	< 1	NA	< 100	< 3	84,000	49	< 0.2	39	2,400	< 5	< 1	63,000	< 1	< 10	< 20	640
	05/25/04	< 100	< 1	6	20	< 2	< 1	33,000	< 10	< 10	< 1	NA	< 100	< 3	86,000	52	< 0.2	26	2,500	< 5	< 1	65,000	< 1	< 10	< 20	620
	03/09/04	< 100	< 1	< 5	25	< 2	< 1	44,000	< 10	< 10	1.1	NA	< 100	< 3	110,000	78	< 0.2	38	3,300 J	< 5	< 1 UJ	76,000	< 1	< 10	< 20	750
	12/02/03	< 100	< 1	< 5	25	< 2	< 1	50,000	< 10	< 10	< 1	NA	230	< 3	140,000	110	< 0.2	45	4,000	< 5	< 1 UJ	86,000	< 1	< 10	< 20	850
	08/13/03	< 100	1	< 5	< 10	< 2	< 1	29,000	< 10	< 10	< 1	NA	150	< 3	75,000	52	< 0.2	< 20	3,700	< 5	< 1 UJ	57,000	< 1	< 10	< 20	490
	06/09/03	< 100	< 1	< 5	< 10	< 2	< 1	31,000	< 10	< 10	< 1	NA	< 100	< 3	78,000	46	< 0.2	< 20	4,400	< 5	< 1 UJ	63,000	< 1	< 10	< 20	670
	03/20/03	< 100	1.1	3.8	12	< 1	< 1	1,700 J-	< 1	< 1	< 1	< 10	< 100	< 3	4,100	50	< 0.2	17	8,300	< 5	< 1	4,700	< 1	< 10	< 10	NA
LF4GW104	06/05/07	< 100	NA	< 5	NA	NA	< 1	74,000 J+	< 10	NA	< 1	NA	< 100	< 3	190,000	37	NA	20	1,500	NA	NA	91,000	NA	NA	< 20	1,120 J
	02/28/07	< 100	NA	< 5	NA	NA	< 1	81,000	< 10	NA	< 1	NA	< 100	< 3	200,000	58	NA	22	1,400	NA	NA	83,000	NA	NA	< 20	1,270
	12/05/06	< 100	NA	< 5	NA	NA	< 1	78,000	< 10	NA	< 1	NA	< 100	< 3	170,000	37	NA	24	1,500 J	NA	NA	82,000	NA	NA	< 20	1,280 J+
	08/16/06	< 100	NA	5.3	NA	NA	< 1	92,000	< 10	NA	1.1	NA	140	< 3	230,000	41	NA	22	1,700	NA	NA	100,000	NA	NA	< 20	1,320
	05/25/06	< 100 UJ	NA	< 5	NA	NA	< 1	84,000	< 10	NA	< 1	NA	< 100	< 3	210,000	48	NA	21	1,700	NA	NA	94,000	NA	NA	< 20	1,660
	03/07/06	< 100	NA	< 5	NA	NA	< 1	83,000	< 10	NA	1.2	NA	260	< 3	210,000	64	NA	22	1,700	NA	NA	87,000	NA	NA	< 20	1,800
	08/31/05	< 100 UJ	< 1	< 5	230	< 2	< 1	77,000	< 10	< 10	< 1	NA	400	< 3	220,000	63	< 0.2	21	1,800	< 5	< 1	81,000	< 1	< 10	20	1,220
DUP0830053B	08/31/05	< 100 UJ	< 1	< 5	260	< 2	< 1	82,000	< 10	< 10	< 1	NA	370	< 3	200,000	72	< 0.2	21	1,700	< 5	< 1	86,000	< 1	< 10	29	1,340
LF4GW104CL	08/31/05	< 100 U	< 2 U	< 2 U	280	< 1 U	< 1 U	92,600	14.2	< 1 U	< 2 U	NA	< 100 U	< 1 U	234,000	67.7	< 0.2 U	18.7	< 5,000 U	< 2 U	< 1 U	98,000	< 1 U	14.3	< 20 U	1,360
	03/15/05	< 100	< 1	< 5	190	< 2	< 1	72,000	< 10	< 10	< 1	NA	130	< 3	180,000	56	< 0.2	< 20	1,700	< 5	< 1	78,000	< 1	< 10	< 20	1,360
	12/14/04	< 100	< 1	< 5	210	< 2	< 1	80,000 J	< 10	< 10	< 1	NA	190	< 3	200,000	63	< 0.2	< 20	1,800	< 5	< 1	88,000	< 1	< 10	< 20	1,210
	08/10/04	< 100	< 1	< 5	220 J	< 2	< 1	80,000	< 10	< 10	< 1	NA	170	< 3	200,000	64	< 0.2	< 20	1,800	< 5	< 1	87,000	< 1	< 10	< 20	980
	05/25/04	< 100	< 1	< 5	210	< 2	< 1	86,000	10	< 10	< 1	NA	210	< 3	220,000	57	< 0.2	< 20	1,900	< 5	< 1	93,000	< 1	< 10	< 20	1,250
	03/09/04	< 100	< 1	< 5	210	< 2	< 1	80,000	11	< 10	1	NA	120	< 3	200,000	47	< 0.2	< 20	2,000 J	< 5	< 1 UJ	86,000	< 1	< 10	< 20	1,200
	12/02/03	< 100	< 1	< 5	190	< 2	< 1	66,000	15	< 10	1	NA	290	< 3	170,000	40	< 0.2	< 20	2,100	< 5	< 1 UJ	77,000	< 1	< 10	< 20	950
	08/13/03	< 100	1.7	< 5	190	< 2	< 1	75,000	13	< 10	< 1	NA	340	< 3	180,000	34	< 0.2	< 20	2,400	< 5	< 1 UJ	80,000	< 1	< 10	< 20	1,070
	06/09/03	< 100	< 1	< 5	160	< 2	< 1	71,000	16	< 10	< 1	NA	130	< 3	190,000	22	< 0.2	< 20	2,600	< 5	< 1 UJ	80,000	< 1	< 10	< 20	1,190
DUP0609031A	06/09/03	< 100	1	< 5	170	< 2	< 1	69,000	15	< 10	< 1	NA	120	< 3	190,000	22	< 0.2	< 20	2,500	< 5	< 1 UJ	79,000	< 1	< 10	< 20	1,240
	03/20/03	< 100	< 1	3.1	130	< 1	< 1	4,100 J-	21	< 1	1.1	20	140	< 3	7,400	< 10	< 0.2	10	5,300	< 5	< 1	4,500	< 1	< 10	< 10	NA

Table A-8-3
Results of Dissolved Metals Analyses
Landfill 4
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Level		**36,000** [2]	**6**	**50**	**1,000**	**4**	**5**	--	**50**	**730** [2]	**1,000**	--	**11,000** [2]	**15**	--	**880** [2]	**2**	**100**	--	**50**	**100**	--	**2**	**260** [2]	**5,000**	--
LF4GW105	08/31/05	< 100	< 1	< 5	230	< 2	< 1	43,000	< 10	< 10	< 1	NA	320	< 3	93,000	< 10	< 0.2	< 20	670 J	< 5	< 1	61,000	< 1	< 10	22	790
	03/15/05	< 100	< 1	< 5	220	< 2	< 1	51,000	< 10	< 10	1.2	NA	< 100	< 3	100,000	14	< 0.2	< 20	970	< 5	< 1	54,000	< 1	< 10	30	770
	12/14/04	< 100	< 1	< 5	280	< 2	< 1	44,000 J	13	< 10	< 1	NA	< 100	< 3	100,000	< 10	< 0.2	< 20	670	< 5	< 1	66,000	< 1	< 10	< 20	760
	08/10/04	< 100	< 1	< 5	310 J	< 2	< 1	58,000	< 10	< 10	< 1	NA	110	< 3	130,000	< 10	< 0.2	< 20	830	< 5	< 1	73,000	< 1	< 10	< 20	1,220
	05/25/04	< 100	< 1	< 5	260	< 2	< 1	46,000	16	< 10	< 1	NA	120	< 3	110,000	< 10	< 0.2	< 20	830	< 5	< 1	69,000	< 1	< 10	< 20	710
	03/09/04	< 100	< 1	< 5	290	< 2	< 1	43,000	18	< 10	< 1	NA	< 100	< 3	100,000	< 10	< 0.2	< 20	670 J	< 5	< 1 UJ	65,000	< 1	< 10	< 20	630
	12/02/03	< 100	< 1	< 5	280	< 2	< 1	36,000	22	< 10	< 1	NA	130	< 3	93,000	< 10	< 0.2	< 20	700	< 5	< 1 UJ	58,000	< 1	< 10	< 20	540
	08/13/03	< 100	1.6	< 5	280	< 2	< 1	38,000	23	< 10	< 1	NA	180	< 3	100,000	< 10	< 0.2	< 20	720	< 5	< 1 UJ	64,000	< 1	< 10	< 20	610
	06/09/03	< 100	< 1	< 5	270	< 2	< 1	42,000	20	< 10	< 1	NA	< 100	< 3	110,000	< 10	< 0.2	< 20	700	< 5	< 1 UJ	62,000	< 1	< 10	< 20	840
	03/20/03	< 100	1.4	< 1	12	< 1	< 1	2,100 J-	20	< 1	< 1	20	< 100	< 3	5,200	11	< 0.2	8.5	1,000	< 5	< 1	3,200	< 1	< 10	< 10	NA
LF4GW106	08/31/05	< 100	< 1	< 5	95	< 2	< 1	48,000	< 10	< 10	1.7	NA	340	< 3	130,000	17	< 0.2	< 20	1,400 J	< 5	< 1	58,000	< 1	< 10	< 20	910
	03/15/05	< 100	< 1	< 5	96	< 2	< 1	41,000	< 10	< 10	< 1	NA	< 100	< 3	140,000	15	< 0.2	< 20	1,400	< 5	< 1	56,000	< 1	< 10	< 20	900
	12/14/04	< 100	< 1	< 5	98	< 2	< 1	52,000 J	< 10	< 10	< 1	NA	110	< 3	140,000	65	< 0.2	< 20	1,500	< 5	< 1	65,000	< 1	< 10	< 20	900
	08/10/04	< 100	< 1	< 5	77 J	< 2	< 1	52,000	< 10	< 10	1.1	NA	100	< 3	140,000	< 10	< 0.2	< 20	1,700	< 5	< 1	61,000	< 1	< 10	< 20	1,210
	05/25/04	< 100	< 1	< 5	77	< 2	< 1	60,000	10	< 10	< 1	NA	150	< 3	170,000	< 10	< 0.2	< 20	1,700	< 5	< 1	70,000	< 1	< 10	< 20	980
	03/09/04	< 100	< 1	< 5	85	< 2	< 1	59,000	12	< 10	< 1	NA	< 100	< 3	170,000	17	< 0.2	< 20	1,600 J	< 5	< 1 UJ	68,000	< 1	< 10	< 20	890
	12/02/03	< 100	< 1	< 5	72	< 2	< 1	52,000	18	< 10	1.1	NA	200	< 3	160,000	13	< 0.2	< 20	1,800	< 5	< 1 UJ	62,000	< 1	< 10	< 20	750
	08/13/03	< 100	< 1	< 5	41	< 2	< 1	61,000	22	< 10	< 1	NA	280	< 3	170,000	13	0.39	< 20	2,100	< 5	< 1 UJ	67,000	< 1	< 10	< 20	970
	06/09/03	< 100	< 1	< 5	25	< 2	< 1	53,000	25	< 10	< 1	NA	< 100	< 3	170,000	16	< 0.2	< 20	2,500	< 5	< 1 UJ	61,000	< 1	< 10	< 20	1,040
	03/20/03	< 100	< 1	3.8	10	< 1	< 1	2,600 J-	29	< 1	1.8	30	< 100	< 3	7,300	< 10	< 0.2	4.9	5,500	< 5	< 1	3,400	< 1	< 10	< 10	NA

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - USEPA Region IX tap water preliminary remediation goal (PRG).
3 - Dissolved metals were analyzed by the quality control laboratory using method E200.7 on an Inductively Coupled Plasma (ICP) instrument.
The primary laboratory analyzed dissolved metals by EPA Method 6020 on an ICP/Mass Spectrometry (ICP/MS) instrument. Although variability between these two methods is not expected, the variability in the data may be a result of different instruments used.
NA - not analyzed
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Groundwater samples collected from all site monitoring wells were field filtered and analyzed for dissolved metals.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.
-- - Cleanup criteria not established
µg/L - micrograms per liter
mg/L -milligrams per liter

Table A-8-4
Groundwater Elevation Summary
Landfill 4
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF04GW03	06/04/07	18.61	292.70	274.09	MW
	02/26/07	18.26	292.70	274.44	MW
	12/04/06	18.80	292.70	273.90	MW
	08/14/06	12.64	292.70	280.06	MW
	05/22/06	13.81	292.70	278.89	MW
	03/06/06	14.40	292.70	278.30	MW
	11/28/05	18.84	292.70	273.86	MW
	08/29/05	18.07	292.70	274.63	MW
	05/23/05	17.56	292.70	275.14	MW
	03/14/05	13.37	292.70	279.33	MW
	12/13/04	18.74	292.70	273.96	MW
	08/09/04	Dry	292.70	274.20 [2]	MW
	05/24/04	18.10	292.70	274.60	MW
	03/08/04	15.75	292.70	276.95	MW
	12/01/03	Dry	292.70	274.20 [2]	MW
	08/11/03	18.47	292.70	274.23	MW
	06/02/03	17.24	292.70	275.46	MW
	03/10/03	17.10	292.70	275.60	MW
	12/02/02	Dry	292.70	274.20 [2]	MW
	08/26/02	Dry	292.70	274.20 [2]	MW
	05/28/02	17.85	292.70	274.85	MW
	03/04/02	16.71	292.70	274.85	MW
	11/26/01	Dry	292.70	274.20 [2]	MW
	08/27/01	Dry	292.70	274.20 [2]	MW
	05/08/01	18.50	292.70	274.85	MW
LF4GW100 [3]	06/04/07	21.60	299.84	278.24	MW
	02/26/07	20.59	299.84	279.25	MW
	12/04/06	20.29	299.84	279.55	MW
	08/14/06	16.89	299.84	282.95	MW
	05/22/06	16.05	299.84	283.79	MW
	03/06/06	21.21	299.84	278.63	MW
	11/28/05	23.40	299.84	276.44	MW
	08/29/05	23.24	299.84	276.60	MW
	05/23/05	Dry	299.84	275.30 [2]	MW
	03/14/05	Dry	299.84	275.30 [2]	MW
	12/13/04	Dry	299.84	275.30 [2]	MW
	08/09/04	Dry	299.84	275.30 [2]	MW
	05/24/04	Dry	299.84	275.30 [2]	MW
	03/08/04	Dry	299.84	275.30 [2]	MW
	12/01/03	Dry	299.84	275.30 [2]	MW
	08/11/03	24.12	299.84	275.72	MW
	06/02/03	24.00	299.84	275.84	MW
	03/10/03	Dry	299.84	275.30 [2]	MW
	12/02/02	Dry	299.84	275.30 [2]	MW
	08/26/02	Dry	299.84	275.30 [2]	MW
	05/28/02	Dry	299.84	275.30 [2]	MW
	03/04/02	Dry	299.84	275.30 [2]	MW
	11/26/01	Dry	299.84	275.30 [2]	MW
	08/27/01	Dry	299.84	275.30 [2]	MW
	05/08/01	Dry	299.84	275.30 [2]	MW
LF4GW101	06/04/07	Dry	297.35	274.55 [4]	MW
	02/26/07	Dry	297.35	274.55 [4]	MW
	12/04/06	Dry	297.35	274.55 [2]	MW
	08/14/06	19.86	297.35	277.49	MW
	05/22/06	15.13	297.35	282.22	MW
	03/06/06	15.27	297.35	282.08	MW
	11/28/05	20.52	297.35	276.83	MW
	08/29/05	Dry	297.35	274.55 [2]	MW
	05/23/05	Dry	297.35	274.55 [2]	MW
	03/14/05	14.78	297.35	282.57	MW

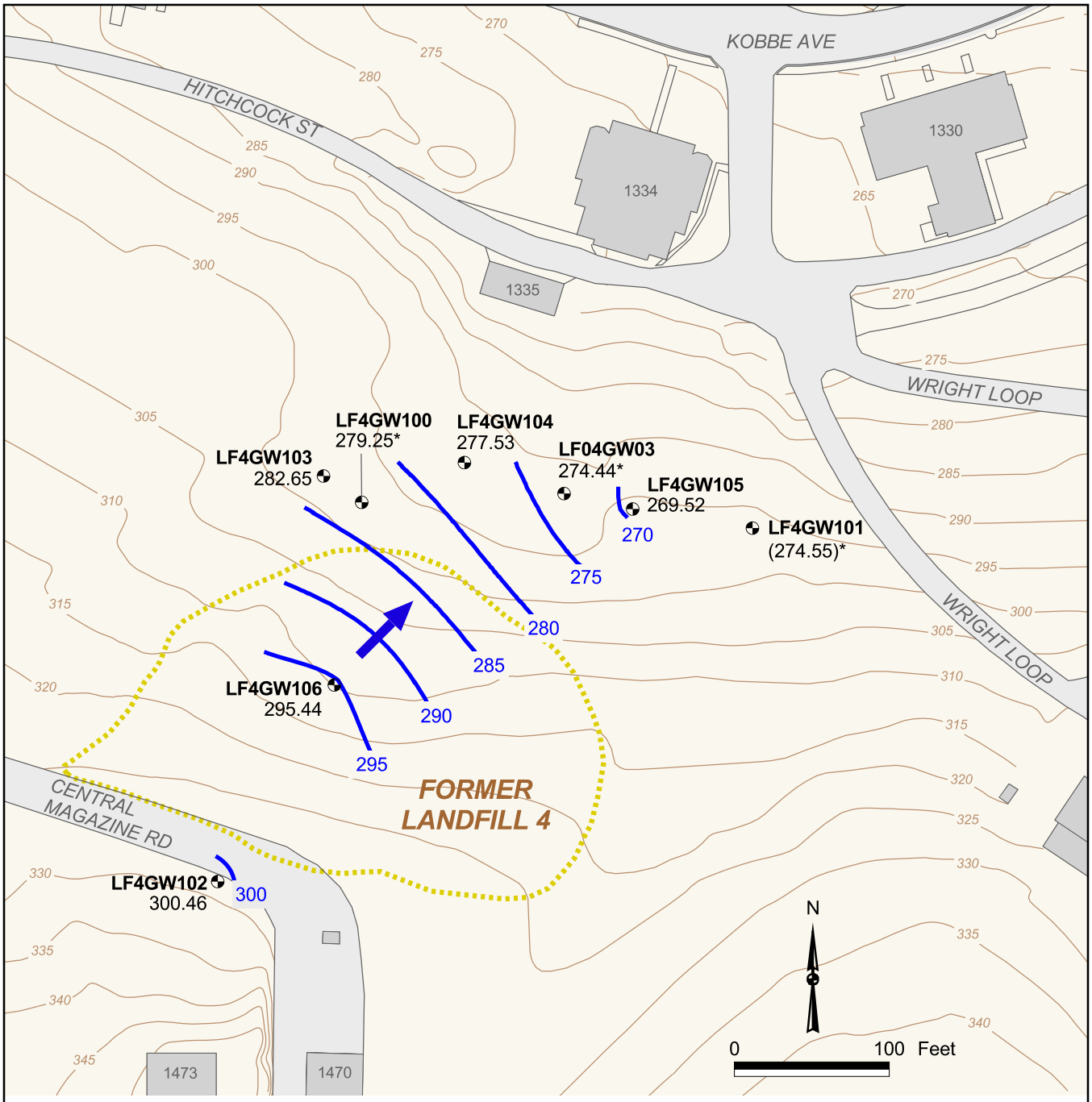
Table A-8-4
Groundwater Elevation Summary
Landfill 4
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF4GW101	12/13/04	Dry	297.35	274.55 [2]	MW
	08/09/04	Dry	297.35	274.55 [2]	MW
	05/24/04	Dry	297.35	274.55 [2]	MW
	03/08/04	Dry	297.35	274.55 [2]	MW
	12/01/03	20.00	297.35	277.35	MW
	08/11/03	Dry	297.35	274.55 [2]	MW
	06/02/03	Dry	297.35	274.55 [2]	MW
	03/10/03	23.00	297.35	274.35	MW
	12/02/02	Dry	297.35	274.55 [2]	MW
	08/26/02	Dry	297.35	274.55 [2]	MW
	05/28/02	Dry	297.35	274.55 [2]	MW
	03/04/02	23.35	297.35	274.00	MW
	11/26/01	Dry	297.35	274.55 [2]	MW
	08/27/01	Dry	297.35	274.55 [2]	MW
	05/08/01	Dry	297.35	274.55 [2]	MW
LF4GW102	06/04/07	30.50	329.49	298.99	MW
	02/26/07	29.03	329.49	300.46	MW
	12/04/06	29.04	329.49	300.45	MW
	08/14/06	21.33	329.49	308.16	MW
	05/22/06	17.11	329.49	312.38	MW
	03/06/06	23.24	329.49	306.25	MW
	11/28/05	32.25	329.49	297.24	MW
	08/29/05	27.55	329.49	301.94	MW
	05/23/05	24.29	329.49	305.20	MW
	03/14/05	30.07	329.49	299.42	MW
	12/13/04	38.75	329.49	290.74	MW
	08/09/04	35.62	329.49	293.87	MW
	05/24/04	33.76	329.49	295.73	MW
	03/08/04	36.85	329.49	292.64	MW
	12/01/03	38.99	329.49	290.50	MW
	08/11/03	35.74	329.49	293.75	MW
	06/02/03	34.53	329.49	294.96	MW
	03/10/03	36.58	329.49	292.91	MW
LF4GW103	06/04/07	21.36	304.26	282.90	MW
	02/26/07	21.61	304.26	282.65	MW
	12/04/06	18.79	304.26	285.47	MW
	08/14/06	17.62	304.26	286.64	MW
	05/22/06	17.33	304.26	286.93	MW
	03/06/06	21.33	304.26	282.93	MW
	11/28/05	26.79	304.26	277.47	MW
	08/29/05	25.12	304.26	279.14	MW
	05/23/05	32.20	304.26	272.06	MW
	03/14/05	34.11	304.26	270.15	MW
	12/13/04	36.66	304.26	267.60	MW
	08/09/04	34.80	304.26	269.46	MW
	05/24/04	34.65	304.26	269.61	MW
	03/08/04	34.67	304.26	269.59	MW
	12/01/03	36.90	304.26	267.36	MW
	08/11/03	33.49	304.26	270.77	MW
	06/02/03	33.76	304.26	270.50	MW
	03/10/03	35.60	304.26	268.66	MW
LF4GW104	06/04/07	20.80	297.75	276.95	MW
	02/26/07	20.22	297.75	277.53	MW
	12/04/06	19.05	297.75	278.70	MW
	08/14/06	15.63	297.75	282.12	MW
	05/22/06	13.99	297.75	283.76	MW
	03/06/06	18.45	297.75	279.30	MW
	11/28/05	22.59	297.75	275.16	MW
	08/29/05	21.19	297.75	276.56	MW
	05/23/05	20.64	297.75	277.11	MW
	03/14/05	25.81	297.75	271.94	MW
	12/13/04	29.97	297.75	267.78	MW
	08/09/04	27.95	297.75	269.80	MW

Table A-8-4
Groundwater Elevation Summary
Landfill 4
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF4GW104	05/24/04	27.90	297.75	269.85	MW
	03/08/04	29.73	297.75	268.02	MW
	12/01/03	30.00	297.75	267.75	MW
	08/11/03	28.75	297.75	269.00	MW
	06/02/03	29.60	297.75	268.15	MW
	03/10/03	30.87	297.75	266.88	MW
LF4GW105	06/04/07	31.93	300.57	268.64	MW
	02/26/07	31.05	300.57	269.52	MW
	12/04/06	30.62	300.57	269.95	MW
	08/14/06	26.78	300.57	273.79	MW
	05/22/06	25.11	300.57	275.46	MW
	03/06/06	31.05	300.57	269.52	MW
	11/28/05	35.60	300.57	264.97	MW
	08/29/05	33.63	300.57	266.94	MW
	05/23/05	35.45	300.57	265.12	MW
	03/14/05	40.59	300.57	259.98	MW
	12/13/04	44.17	300.57	256.40	MW
	08/09/04	42.58	300.57	257.99	MW
	05/24/04	43.20	300.57	257.37	MW
	03/08/04	44.76	300.57	255.81	MW
	12/01/03	45.35	300.57	255.22	MW
	08/11/03	44.30	300.57	256.27	MW
	06/02/03	45.57	300.57	255.00	MW
	03/10/03	46.81	300.57	253.76	MW
LF4GW106	06/04/07	19.48	311.36	291.88	MW
	02/26/07	15.92	311.36	295.44	MW
	12/04/06	13.96	311.36	297.40	MW
	08/14/06	11.00	311.36	300.36	MW
	05/22/06	8.91	311.36	302.45	MW
	03/06/06	13.54	311.36	297.82	MW
	11/28/05	21.88	311.36	289.48	MW
	08/29/05	17.72	311.36	293.64	MW
	05/23/05	17.31	311.36	294.05	MW
	03/14/05	23.85	311.36	287.51	MW
	12/13/04	30.31	311.36	281.05	MW
	08/09/04	28.20	311.36	283.16	MW
	05/24/04	28.30	311.36	283.06	MW
	03/08/04	31.65	311.36	279.71	MW
	12/01/03	31.40	311.36	279.96	MW
	08/11/03	28.14	311.36	283.22	MW
	06/02/03	28.59	311.36	282.77	MW
	03/10/03	31.09	311.36	280.27	MW

Notes
1 - All depth to water measurements are an average of three measurements recorded in the field.
2 - Elevation indicates bottom-of-casing elevation.
3 - The well construction details for this well indicate that the bottom of the casing is 22.5' from the ground surface; however, this well also has 2.04' of casing above grade. Therefore, the bottom of casing elevation has been recalculated for this well to be 24.54' from the top of casing elevation.
MW- monitoring well
feet PLLW - feet above Presidio lower low water vertical datum



LEGEND

- Approximate Direction of Groundwater Flow
- Groundwater Contour (Contour Interval : 5 ft)
- Former Landfill 4 Excavation Boundary
- Topographic Contour (Contour Interval : 5 ft)

LF4GW104 Groundwater Monitoring Well
277.53 February 2007 Groundwater Elevations

(274.55) Value indicates bottom of casing elevation in feet PLLW

* LF4GW100, LF4GW101 and LF04GW03 were not used for groundwater contouring because they are screened in shallower lithologic units.

1335 Building and Number

Notes:
Groundwater elevation data collected on 26 February 2007.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

LANDFILL 4 SITE PLAN AND 26 FEBRUARY 2007 GROUNDWATER ELEVATION MAP

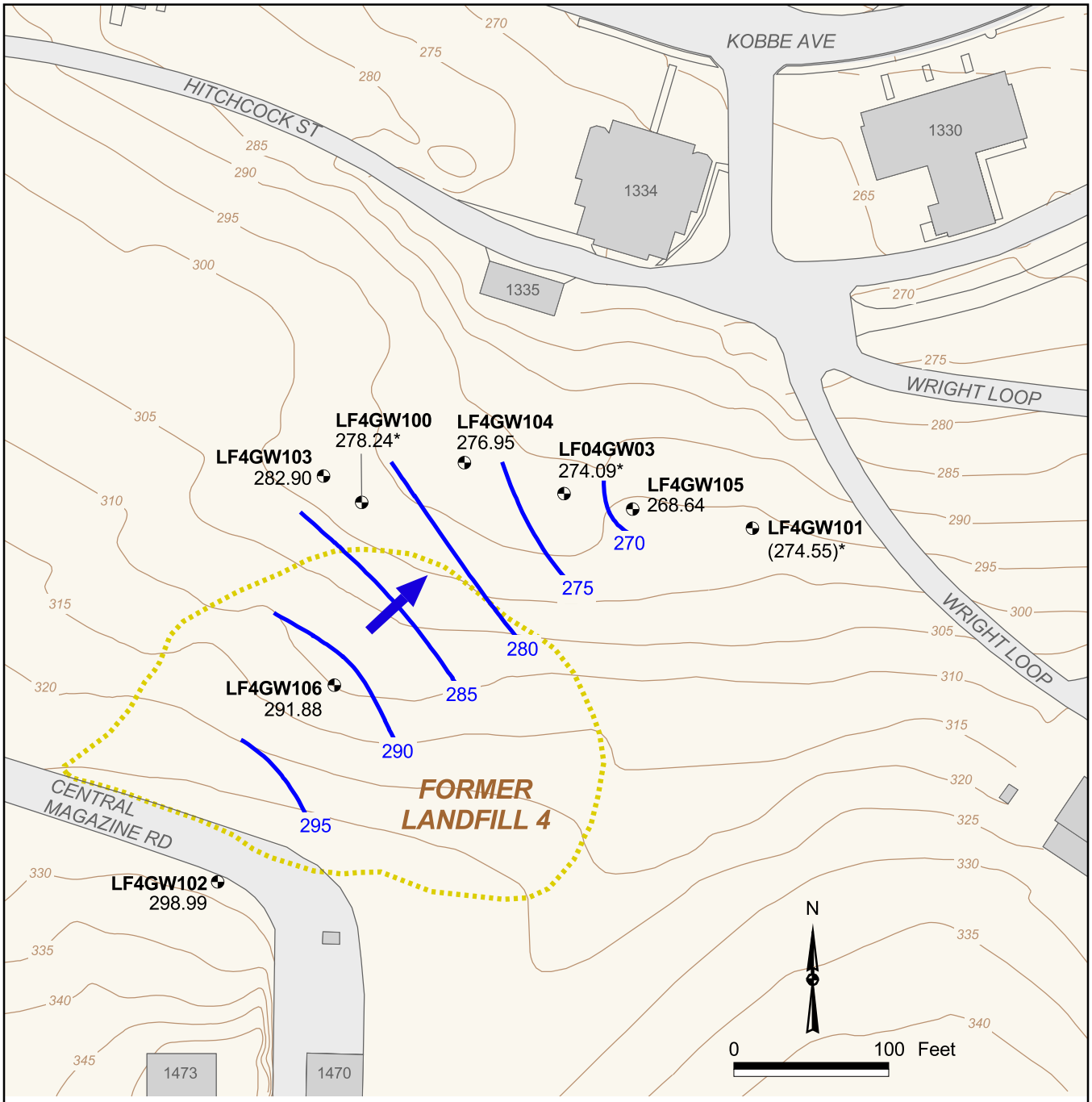
Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 561-5315
October 2007

FIGURE A-8-1

Treadwell & Rollo 2893_04\Q2_2007\A_08.APR 10/2007



LEGEND

- Approximate Direction of Groundwater Flow
- Groundwater Contour (Contour Interval : 5 ft)
- Former Landfill 4 Excavation Boundary
- Topographic Contour (Contour Interval : 5 ft)

LF4GW104 Groundwater Monitoring Well
276.95 June 2007 Groundwater Elevations

(274.55) Value indicates bottom of casing elevation in feet PLLW

* LF4GW100, LF4GW101 and LF04GW03 were not used for groundwater contouring because they are screened in shallower lithologic units.

1335 Building and Number

Notes:
Groundwater elevation data collected on 4 June 2007.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

LANDFILL 4 SITE PLAN AND 4 JUNE 2007 GROUNDWATER ELEVATION MAP

Treadwell&Rollo

THE PRESIDIO TRUST

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October 2007

FIGURE A-8-2

Treadwell & Rollo 2893_04\Q2_2007\A_08.APR 10/2007

First Quarter 2007

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: LF4 | Well No.: LF4GW103
Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: BR | Sampled by: BR | Date: 2-28-07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other
Well Total Depth (TD, ft. below TOC): 47.40
Depth to Water (WL, ft. below TOC): 23.71
Depth to free phase (FP, ft. below TOC):
Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD
[ ] Low Flow [X] Bailer \ Type: disp
[ ] Normal [ ] Pump \ Type:
[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE
[ ] Near top Depth (ft):
[ ] Near Bottom Depth (ft):
[ ] Other:

PURGE VOLUME CALCULATION
— (Water Column Length) X — (Water Volume/ft) X — (No. Vols) = gals CALCULATED PURGE VOLUME
4.5 gals ACTUAL PURGE VOLUME

Total Purge Time: —
Recharge Rate: —
Purge Rate: 0.5 gpm

GROUNDWATER PARAMETER MEASUREMENTS
Meter Type: Myron / Hach 2100P YSI D.O.

Time	/ Liters or gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm) (µS)	ORP (mV)	Turbidity (NTU)	Comments
930	/ initial	6.17	9.9	pre 0.69	4304		23	
933	/ 1.5	6.18	11.2		4384		25	
936	/ 3.0	5.96	11.4		4635		21	
939	/ 4.5	5.91	10.8		4663		18	
	/			post = 0.80				
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							

Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other baker tank

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 2-28-07 / 940

Purging Equipment: Pump - Type: | Bailer - Type: disp | Other:
Sample Filtered: Yes / No | Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF4GW103	1 x 500 poly NP	C+T	2192	
	1 x 500 HNO3 poly			
	2 x 1 Liter Amber NP			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: LF4 | Well No.: LF4GW104

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BR | Sampled by: BR | Date: 2-28-07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 42.30

Depth to Water (WL, ft. below TOC): 20.46

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: disp

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

___ (Water Column Length) x ___ (Water Volume/ft) x ___ (No. Vols) = ___ gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate:

Purge Rate: 0.5 gpm

4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: myron / Hach / YSI 0.0

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm) (µS)	ORP (mV)	Turbidity (NTU)	Comments
955 /	initial	6.43	11.5	1.95 ppt	2284		19	
958 /	1.5	6.23	11.7		2181		15	
1001 /	3.0	6.10	11.9		2170		16	
1004 /	4.5	6.08	12.2		2184		15	
/			Post	0.63				
/								
/								
/								
/								
/								
/								
/								
/								
/								
/								

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other baker tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 2-28-07 1010

Purging Equipment: Pump - Type: Bailer - Type: disp Other:

Sample Filtered: Yes / No Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF4GW104	1x500 poly np	CT	2182	
"	1x500 HNO3	"	"	
"	2x1 liter Amber	"	"	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Second Quarter 2007

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 4 | Well No.: ~~LF6~~ LF4GW103

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BR | Sampled by: BR | Date: 6-5-06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): --

Depth to Water (WL, ft. below TOC): 21.36

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: disp

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[X] Near top Depth (ft): 21.36

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 9 min

Recharge Rate: | Purge Rate: 0.5 gpm

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron Ultra / Hach turb.

Time / Liters or (Gallons)	pH	Temp (°C) °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1053 / Initial	7.02	14.0	0.43	4700 µS		10	~~DTW=23.24~~ BR
1056 / 1.0	7.03	14.0		4758		8	DTW=23.24
1059 / 2.0	7.05	14.1	0.22	4762		7	DTW=24.10
/							
/							
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/							
/							
/							
/							
/							

Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6/5/06 / 1105

Purging Equipment: Pump - Type: | Bailer - Type: disp | Other:

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF4GW103	1x1L poly	CT	2160	
	1x500 mL	↓		
	1x250 mL	↓		

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.
LF4GW103	DUP060506073A

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 4 | Well No.: LF4GW104

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: RP | Sampled by: RP | Date: 6/5/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): —

Depth to Water (WL, ft. below TOC): 20.77

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: disp.

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[X] Near top Depth (ft): 21'

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = CALCULATED PURGE VOLUME: gals

Total Purge Time: 9 min

Recharge Rate: | Purge Rate: 0.5 gpm

ACTUAL PURGE VOLUME: 2.0 gals

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron L Ultra / Hach turbid

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1127 / initial	7.27	14.5	12.97	2092 MC		15	
1130 / 1.0	7.22	14.4		2090		12	DTW=21.61
1133 / 2.0	7.19	14.5	3.22	2090		13	DTW=21.98
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6-5-07 / 1140

Purging Equipment: Pump - Type: | Bailer - Type: disp. | Other:

Sample Filtered: (Yes) / No | Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF4GW104	3 x 1L	CT	2160	MS/MSD
	3x 500mL	↓		↓
	3 x 250mL			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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FILL SITE 5
APPENDIX SECTION A-9
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2007
Presidio of San Francisco, California

1.0 INTRODUCTION AND BACKGROUND

Fill Site 5 (FS 5) is located in the western portion of the Presidio (Figure 1) between Lincoln Boulevard and Washington Boulevard, adjacent to the World War II Memorial (Figure A-9-1). The FS 5 site is approximately 270 to 320 feet above the PLLW datum.

FS 5 was reportedly used by the Army for the disposal of debris and municipal waste from approximately 1946 to 1981 (Dames & Moore, 1997), although historical aerial photographs indicate that the area was disturbed (non-vegetated) as early as 1935. FS 5 was reportedly used when inclement weather rendered disposal at Landfill 4 difficult. The site was used for disposal of building debris, fill dirt, landscape waste, and municipal waste. However, filling activities at FS 5 may have ceased as early as 1948, when a structure (former Building 1351) was erected.

No groundwater was encountered during the Army's RI activities at FS 5; thus no groundwater monitoring wells were installed (Dames & Moore, 1997). Montgomery Watson installed three wells (1349MW01, 1349MW02, and 1349MW03) in 1995 as part of the Army's investigation at the nearby Building 1349 area. The locations of these wells are shown on Figure A-9-1.

In July 2000, the Trust constructed two new groundwater monitoring wells (LF5GW100 and LF5GW101) in the presumed downgradient groundwater flow direction from FS 5 (Figure A-9-1).

In accordance with the RAP (Treadwell & Rollo, 2003e) and the Building 1349 Site Investigation (SI) (Treadwell & Rollo, 2003d), six new (1349MW100 through 1349MW102 and LF5GW102 through LF5GW104) and one replacement (1349MW03R) groundwater monitoring wells were installed in the vicinity of former FS 5. The original well 1349MW03 was abandoned prior to the beginning of remedial excavation at former FS 5. The FS 5 remedial action and Building 1349 SI are detailed below in Section 3.0 and also in Appendix A, Section A-5. Monitoring wells 1349MW01, 1349MW02, 1349MW03R and 1349MW100 through 1349MW102 are either within the former footprint of FS 5 or upgradient of FS 5 and therefore, these wells are included in the FS 5 groundwater monitoring plan. Conversely, monitoring wells 1349MW103 through 1349MW105 are located on the opposite side, when compared to Fill Site 5, of the topographic high point associated with the Building 1349 Area. The groundwater flow direction in this area varies from the northeast to the northwest and away

from FS 5, therefore, these wells (1349MW103 through 1349MW105) are not included in the FS 5 groundwater monitoring plan.

Since the Second Quarter 2001, all FS 5 and the associated Building 1349 wells, which are within or directly upgradient of the former FS 5 footprint, have been sampled and analyzed for general chemistry parameters, TPH, VOCs, OCPs, PCBs, PAHs, chlorinated herbicides, dissolved metals and TDS.

The post-remediation groundwater monitoring requirements and cleanup levels from the RAP have been met for the required frequency of monitoring for TPH, PAHs, OCPs, VOCs, PCBs, chlorinated herbicides, general chemistry parameters, TDS, and dissolved metals. Therefore, FS 5 and Building 1349 Area monitoring wells were not proposed for sampling during the First and Second Quarters 2007, as discussed in Section 3.0 below. Summaries of previous analytical results are presented in Tables A-9-1 through A-9-7.

2.0 SITE DESCRIPTION AND GEOLOGY

Materials encountered while drilling soil borings for installation of LF5GW103, LF5GW104, and 1349MW03R consisted of clayey to silty sand of the Colma Formation to depths ranging between 7.5 to 13.5 feet bgs over Franciscan complex serpentinite to the maximum explored depths ranging between 23.5 and 36 feet bgs. Materials encountered while drilling soil boring LF5GW102, although similar to the other soil borings, included dune sand from the ground surface to a depth of 5.5 feet bgs, and silty sand Colma Formation to a depth of 26 feet bgs over Franciscan complex serpentine to the maximum depth explored of 40 feet bgs. Saturated soils were encountered at approximately 11 feet bgs in the boring for LF5GW103 to 26 feet bgs in the soil boring for LF5GW102.

Well LF5GW102 is located near the southern boundary of the excavated area (Figure A-9-1). Wells LF5GW103 and LF5GW104 are located within the excavated portion of former FS 5 along the western border. In addition, previously existing well 1349MW03, which was located within the footprint of the FS 5 fill material, was abandoned prior to remedial excavation activities and was replaced with well 1349MW03R. The new location was approximately 60 feet south, further within the footprint of the excavated area, in close proximity to an inferred fault (Figure A-9-1). These wells are generally screened within the Franciscan complex serpentinite, as are wells 1349MW100 and 1349MW101.

Surface and groundwater at FS 5 flows in a southwesterly direction towards Baker Beach in the Coastal Bluffs Groundwater Basin. Depth to groundwater beneath FS 5 ranges from 5 to 33 feet bgs (Table A-9-8). All of the wells at FS 5 and monitoring wells 1349MW01, 1349MW02, 1349MW03R and 1349MW100 through 1349MW102 are located in the Coastal Bluffs Groundwater Basin.

Additionally, groundwater elevation measurements from wells 1349MW103 through 1349MW105 indicate that groundwater in this area flows northeasterly to northwesterly within the Marina Groundwater Basin. Monitoring wells 1349MW103 through 1349MW105 are discussed in Section A-5 and will not be discussed further in this section.

3.0 REMEDIAL ACTION

The *Remedial Action Plan and Evaluation of Alternatives for Landfill 4 and Fill Site 5* (RAP) was prepared and approved during Third Quarter 2002 (Treadwell & Rollo, 2002e). The RAP selected excavation, recycling, and offsite disposal of all fill material and impacted underlying soils, along with groundwater monitoring, as the FS 5 remedial alternative. Under the remedial alternative, all fill material and contaminated soil with constituent concentrations above the cleanup criteria was removed and disposed of offsite at an approved disposal facility. The removal action at FS 5 began in February 2003 and was completed in September 2004.

Additional soil sampling to complete the soil cleanup activities at FS 5 has been completed and documented in the *Draft Construction Completion Report Landfill 4 and Fill Site 5* (CCR) which was submitted for stakeholder review in the Fourth Quarter 2004 (Treadwell & Rollo, 2004f). Between 7 February and 25 April 2003, a total of 12,393 tons of waste material was removed from the former FS 5 site, with an approximate additional 40 cubic yards of Class II waste removed in September 2004. Approximately 90 percent of the fill material was disposed at Class II and Class III disposal sites and the remainder as Class I California Hazardous Waste. Soil confirmation sample concentrations or 95% UCL calculations for all compounds tested (both COC and non-COC compounds) determined that the site soil conditions meet the goals presented in the RAP. Based on the remedial activities conducted, field observations, established cleanup levels, and a review and evaluation of the confirmation sampling results, LF 4 and FS 5 are recommended for construction completion. Groundwater monitoring will continue per the RAP to confirm that applicable cleanup levels are not exceeded (Treadwell & Rollo, 2002f).

During remedial activities at FS 5, an underground storage tank (UST) was discovered, removed, and off-hauled (Figure A-9-1). The details of the UST removal can be found in the *Draft Underground Storage Tank Closure Report Former Building 1351*, which is included as an appendix to the CCR (Treadwell & Rollo, 2004f). Soil confirmation sample concentrations and/or 95% UCL calculations for compounds tested (both COC and non-COC compounds) indicated that the site conditions meet the goals presented in the RAP.

Based on discussions with DTSC on 19 February 2004 and the Trust's letter to DTSC regarding *Landfill 4 and Fill Site 5 Exceedance Follow-up* dated 17 May 2004 (Trust, 2004), the Trust performed additional sampling at FS 5 on 8 July 2004. The purpose of the additional sampling was to confirm the zinc cleanup level exceedance in the duplicate sample DUP031003A. Sample DUP031003A was collected at a depth of 0.5 feet adjacent to sample FS5EX112[0.5] and had a zinc exceedance as well as detectable levels of cadmium and silver. The previous FS5EX112[0.5] sample location was located using the Trust's Trimble GPS unit. Additional

confirmation samples (FS5EX162) were collected at 0.5-, 1-, 1.5- and 2-foot depths. Confirmation sample results for FS5EX162[0.5] and duplicate sample DUP070804B (collected at 1-foot bgs), exceeded the cleanup level of 160 µg/kg.

Additional excavation was completed at sample location FS5EX162. This area was excavated to a depth of 1 foot bgs on 1 September 2004 and confirmation soil samples were collected on 2 September 2004 and submitted for zinc analysis. The additional confirmation sample results were all below the zinc cleanup level of 160 mg/kg indicating that the site is available for unrestricted land use. The results of this sampling are detailed in the CCR (Treadwell & Rollo, 2004f).

Between 9 and 23 April 2003, approximately 5,604 cubic yards (yd^3) of imported backfill material was delivered to the site. The source for the FS 5 imported material was the Letterman redevelopment project Colma excavation spoils.

Treadwell & Rollo sampled the imported Letterman Colma Backfill Soil (Colma Fill) at Fill Site 5 for OCPs in accordance with the *Field Sampling Plan to Evaluate Possible Chlordane in Letterman Colma Backfill Soil* dated 28 February 2006. The purpose of the soil sampling was to characterize the Colma Fill at Fill Site 5 for the occurrence of chlordane above site specific soil cleanup levels. The analytical results of this sampling event are presented in the *Results of Colma Fill Sampling, Landfill 4, Fill Site 5, and Girard Street Ramp, Presidio of San Francisco, California* dated 20 February 2007 (Treadwell & Rollo, 2007).

At Fill Site 5, the reported results indicate that the Colma Fill does not contain chlordane above the ecological special-status cleanup level of 9 µg/kg nor other OCPs above applicable cleanup levels. Therefore, no additional action is required or recommended at this site (Treadwell & Rollo, 2007).

In accordance with the California Code of Regulations, Title 27, Subchapter 3, Section 20390, a site that has undergone clean closure (where all wastes, residues, contaminated subsoil, and other contaminated materials are removed or decontaminated at closure) must be shown to comply with the water quality protection standard or the cleanup levels presented in Section 3 of the RAP for three years. A complete table of cleanup levels for compounds in groundwater applicable to the FS 5 monitoring wells is presented in Table 3-11 of the RAP.

Following the removal action, four new monitoring wells (1349MW03R and LF5GW102 through LF5GW104) were installed and added to this groundwater monitoring program at locations shown on Figure A-9-1. The new FS 5 wells were first sampled in the Second Quarter 2003 and were to be sampled quarterly for a minimum of three years in accordance with the RAP.

During Phase 1 of the Building 1349 SI (Treadwell & Rollo, 2003d), monitoring well 1349MW100 was installed upgradient of FS 5. Phase 2 of the Building 1349 SI occurred during the FS 5 excavation activities and wells 1349MW101 and 1349MW102 were installed at the

upgradient edge of the former FS 5 footprint to provide upgradient groundwater elevation and chemistry information for FS 5 and therefore, the cleanup levels specified in the RAP apply to wells 1349MW101 and 1349MW102.

Building 1349 monitoring wells 1349MW01, 1349MW02 and 1349MW100 are not located within, but are upgradient of the former FS 5 footprint. Therefore, the cleanup levels specified in the RAP do not apply to monitoring wells 1349MW01, 1349MW02 and 1349MW100.

The post-remediation groundwater monitoring requirements and cleanup levels from the RAP have been met for the required frequency of monitoring for TPH, PAHs, OCPs, VOCs, PCBs, chlorinated herbicides, general chemistry parameters, TDS, and dissolved metals. Therefore, FS 5 and Building 1349 Area monitoring wells were not proposed for sampling during the First and Second Quarters 2007.

4.0 GROUNDWATER MONITORING

FS 5 has five monitoring wells (LF5GW100 through LF5GW104) and the Building 1349 Area has five monitoring wells (1349MW01, 1349MW02, 1349MW03R, 1349MW101, and 1349MW102), which RAP-specified cleanup levels apply (Figure A-9-1). Groundwater elevations were only collected at FS 5 wells during the First Quarter 2007. Groundwater elevations were collected at the adjacent Building 1349 Area during both the First and Second Quarters 2007. No FS 5 monitoring wells were scheduled to be sampled during the First and Second Quarters 2007 because the RAP requirements have been met (Tables 1A and 1B).

4.1 Groundwater-Level Measurements and Interpretation

Groundwater elevation measurements were collected at FS 5 wells and associated Building 1349 Area wells on 26 February 2007. Groundwater elevation measurements were not collected from FS 5 wells during the Second Quarter 2007. Groundwater elevation measurements were collected from associated Building 1349 Area wells during the Second Quarter 2007 and are discussed in Appendix A-5. Groundwater elevations are recorded in Table A-9-8. Water level meters were calibrated on 26 February 2007 and the calibration logs can be found in Appendix B. Groundwater elevation field forms can be found in Appendix C.

During the First Quarter 2007, the groundwater elevations ranged from 222.26 to 286.51 feet above PLLW in monitoring wells LF5GW100 and 1349MW101, respectively (Figure A-9-1). Groundwater elevations measured during the First Quarter 2007, were consistent with historical levels. Groundwater elevations were not measured within FS 5 monitoring wells during the Second Quarter 2007.

A groundwater elevation map showing the First Quarter 2007 groundwater contours and flow direction for FS 5 is included as Figure A-9-1. During the First Quarter 2007, groundwater flow was in a southwesterly direction, following the general topographic trend. The groundwater

gradient was estimated to be approximately 0.10 feet per foot. Groundwater flow directions and gradients are consistent with those previously found at the site.

4.2 Monitoring Well Purging and Sampling

Post-remediation groundwater cleanup levels from the Fill Site 5 RAP were met for the required frequency of monitoring within monitoring wells 1349MW03R, 1349MW101, and 1349MW102, prior to the First Quarter 2007. Therefore, no samples were proposed for the First and Second Quarters 2007 at Fill Site 5, in accordance with the proposed sampling plans (Tables 1A and 1B). These three wells will be monitored per the requirements of the Building 1349 Area CAP once it is implemented.

Historical groundwater analytical results for Fill Site 5 are presented in Tables A-9-1 through A-9-7 and groundwater elevation data are summarized in Table A-9-8.

5.0 CONCLUSIONS & RECOMMENDATIONS

Post-remediation groundwater cleanup levels from the Fill Site 5 RAP were met for the required frequency of monitoring within monitoring wells 1349MW03R, 1349MW101, and 1349MW102, prior to the First Quarter 2007. Therefore, no samples were proposed for the First and Second Quarters 2007 at Fill Site 5, in accordance with the proposed sampling plans (Tables 1A and 1B). The Fill Site 5 wells will remain in place until regulatory site certification is received. Wells required for the Building 1349 corrective action will remain in-place and be monitored per the Final Building 1349 CAP. The Building 1349 corrective action is scheduled to begin in the Fall of 2007.

Table A-9-1
Results of General Chemistry Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	°C
LF5GW100	08/17/06	NA	NA	NA	0.38	NA	NA	NA	NA	NA	0.20	8.05	16.63
	03/09/06	420	420	310	1.4	< 0.1	2.6	< 0.05	NA	34	55.1	6.24	14.1
	08/30/05	410	410	290	0.9	< 0.1 UJ	2.5	< 0.05 UJ	NA	33	NM	NM	NM
	05/26/05	410	410	300	1.3	< 0.1	2.7	< 0.05	NA	33	NM	NM	NM
DUP0526051A	05/26/05	420	420	300	--	< 0.1	2.7	< 0.05	NA	33	NM	NM	NM
LF5GW100CL	05/26/05	419	419	355	--	< 0.3 U	2.7	< 1 U	NA	31.2	NM	NM	NM
	03/28/05	390	390	320	1.1	< 0.1	2.7	< 0.05	NA	33	NM	NM	NM
	12/16/04	460	460	330	0.9	< 0.1	2.7	< 0.05	NA	33	NM	NM	NM
DUP1216041A	12/16/04	480	480	330	--	< 0.1	2.7	< 0.05	NA	33	NM	NM	NM
	08/12/04	440	440	320	0.5	< 0.1	2.6	< 0.05	NA	32	NM	NM	NM
	05/26/04	390	390	320	0.7	< 0.1	2.6	< 0.05	NA	33	NM	NM	NM
	03/15/04	410	410	330	0.8	< 0.1	2.7	< 0.05	NA	35	NM	NM	NM
	12/04/03	430	430	330	0.9	< 0.1	2.7	< 0.05	NA	34	NM	NM	NM
	08/14/03	430	430	310	0.35	< 0.1	2.6 b,J-	< 0.05 UJ	NA	35	NM	NM	NM
	06/05/03	430	430	330	0.7	< 0.1	2.8	< 0.05	NA	33	NM	NM	NM
	12/04/02	400	400	330	0.72	< 0.1	2.7	< 0.05	NA	32	NM	NM	NM
	08/29/02	410	380	330	0.45	< 0.1	2.8	< 0.25	NA	35	NM	NM	NM
	05/30/02	430	430	340	0.53	0.08 J	2.8	< 0.05	NA	35	NM	NM	NM
	03/06/02	420	420	340	0.88	0.082 J	2.8	< 0.05	NA	34	NM	NM	NM
	11/28/01	460	460	320	0.61	0.062 J	2.8	< 0.05	NA	34	NM	NM	NM
	08/30/01	440	440	340	0.83	0.08 J	2.8	< 0.05	NA	35	NM	NM	NM
	05/10/01	400	400	260	4.7	0.08 J	4.3	< 0.05	NA	28	NM	NM	NM
LF5GW100CL	05/10/01	380	NA	280	--	NA	4.3[2]	NA	NA	28	NM	NM	NM
	07/21/00	360	360	300	NM	NA	NA	NA	NA	30	NM	NM	NM
LF5GW101	08/17/06	NA	NA	NA	0.75	NA	NA	NA	NA	NA	23.20	8.17	15.25
	03/09/06	390	390	250	1.8	< 0.1	3.8	< 0.05	NA	29	218.8	6.08	13.9
	12/02/05	NA	NA	NA	1	NA	NA	NA	NA	NA	NM	NM	NM
	08/30/05	410	400	230	1	< 0.1 UJ	3.8	< 0.05 UJ	NA	29	NM	NM	NM
	05/26/05	400	400	240	0.7	< 0.1	4	< 0.05	NA	30	NM	NM	NM
	03/28/05	390	390	270	0.91	< 0.1	4.1	< 0.05	NA	27	NM	NM	NM
	12/16/04	420	420	270	0.7	< 0.1	4.2	< 0.05	NA	30	NM	NM	NM
	08/12/04	410	410	250	0.7	< 0.1	4.1	< 0.05	NA	29	NM	NM	NM
	05/26/04	370	370	260	0.4	< 0.1	3.9	< 0.05	NA	29	NM	NM	NM
	03/15/04	390	390	270	0.8	< 0.1	4.2	< 0.05	NA	30	NM	NM	NM
	12/04/03	410	410	260	0.9	< 0.1	4.2	< 0.05	NA	29	NM	NM	NM
	08/14/03	430	430	250	0.71	< 0.1	3.9 b,J-	< 0.05 UJ	NA	30	NM	NM	NM
	06/05/03	380	380	270	0.9	< 0.1	4.3	< 0.05	NA	29	NM	NM	NM

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Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	°C
LF5GW101	12/04/02	360	360	260	0.66	< 0.1	4.1	< 0.05	NA	29	NM	NM	NM
	08/29/02	410	410	270	0.69	< 0.1	4.3	< 0.25	NA	30	NM	NM	NM
	05/30/02	390	390	290	0.83	0.081 J	4.3	0.02 J	NA	31	NM	NM	NM
	03/06/02	380	380	280	1.15	0.072 J	4.3	< 0.05	NA	27	NM	NM	NM
	11/28/01	390	390	270	1.01	0.08 J	4.3	< 0.05	NA	28	NM	NM	NM
	08/30/01	370	370	270	1.06	0.086 J	4.3	< 0.05	NA	27	NM	NM	NM
	05/10/01	430	430	340	4.5	0.33	2.7	< 0.05	NA	33	NM	NM	NM
	07/21/00	430	430	400	NM	NA	NA	NA	NA	42	NM	NM	NM
LF5GW102	08/17/06	NA	NA	NA	NM	NA	NA	NA	NA	NA	NM	9.05	14.20
	03/09/06	310	190	220	0.22	< 0.1	0.49	0.1	NA	22	NM	8.99	13.8
	08/30/05	310	190	210	0.9	< 0.1 UJ	0.25	< 0.05 UJ	NA	22	NM	NM	NM
DUP0830053A	08/30/05	310	190	210	--	< 0.1 UJ	0.25	< 0.05 UJ	NA	22	NM	NM	NM
LF5GW102CL	08/30/05	322	322	200	--	< 0.3 U	0.78 J	< 1 U	NA	20.7	NM	NM	NM
	05/26/05	74	74	210	0.7	< 0.1	0.78	0.08	NA	24	NM	NM	NM
	03/21/05	280	120	230	0.1	< 0.1	0.48	0.15	NA	23	NM	NM	NM
	12/14/04	320	230	240	0.2	< 0.1	0.23	0.15	NA	22	NM	NM	NM
	08/11/04	310	190	220	0.45	< 0.1	0.41	0.11	NA	24	NM	NM	NM
	05/27/04	340	230	230	1.3	< 0.1	0.55	0.06	NA	27	NM	NM	NM
	03/10/04	300	230	240	0.37	< 0.1	0.25	0.09	NA	28	NM	NM	NM
	12/03/03	330	230	230	0.7	< 0.1	1.1	< 0.05	NA	26	NM	NM	NM
DUP1203031A	12/03/03	330	210	240	--	< 0.1	0.62	< 0.05	NA	25	NM	NM	NM
LF5GW102CL	12/03/03	300	190	263	--	< 0.1	0.42	0.057	0.48	25.8	NM	NM	NM
	08/13/03	300	120	320	0.6	< 0.5	< 0.25 UJ	< 0.25 UJ	NA	37	NM	NM	NM
	06/06/03	290	210	380	0.7	0.34	0.1	0.1	NA	37	NM	NM	NM
LF5GW103	08/17/06	NA	NA	NA	NM	NA	NA	NA	NA	NA	NM	8.05	14.90
	03/09/06	350	350	190	0.88	< 0.1	4.9	< 0.05	NA	27	NM	8.04	14
	08/30/05	360	360	180	0.8	< 0.1 UJ	4.8	< 0.05 UJ	NA	27	NM	NM	NM
	05/24/05	350	350	180	0.9	< 0.1	4.5	< 0.05	NA	27	NM	NM	NM
	03/15/05	330	330	190	0.8	< 0.1	5	< 0.05	NA	27	NM	NM	NM
	12/14/04	360	360	200	0.7	< 0.1	5.1	< 0.05	NA	28	NM	NM	NM
	08/11/04	360	360	200	0.49	< 0.1	4.9	< 0.05	NA	28	NM	NM	NM
	05/27/04	350	350	190	1.3	< 0.1	4.8	< 0.05	NA	27	NM	NM	NM
	03/10/04	340	340	210	0.7	< 0.1	4.8	< 0.05	NA	29	NM	NM	NM
	12/03/03	380	380	200	0.8	< 0.1	4.8	< 0.05	NA	29	NM	NM	NM

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Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	°C
LF5GW103	08/19/03	370	370	200	1	< 0.1	4.8	< 0.05	NA	31	NM	NM	NM
DUP0819032A	08/19/03	320	320	200	--	< 0.1	4.8	< 0.05	NA	30	NM	NM	NM
LF5GW103CL	08/19/03	360	360	200	--	< 0.1	5 J-	< 0.05	5 J-	27	NM	NM	NM
	06/05/03	410	410	210	0.8	< 0.1	4.6	< 0.05	NA	29	NM	NM	NM
LF5GW104	08/17/06	NA	NA	NA	NM	NA	NA	NA	NA	NA	NM	7.29	14.8
	03/07/06	420	420	290	0.63	< 0.1	5.9	< 0.05	NA	73	NM	7.65	14.4
DUP0307063B	03/07/06	370	370	290	--	< 0.1	6	< 0.05	NA	73	NM	NM	NM
LF5GW104CL	03/07/06	342	342	292	--	< 1 U	6.43	< 0.02 U	NA	73.3	NM	NM	NM
	08/30/05	360	360	270	0.6	< 0.1 UJ	5.9	< 0.05 UJ	NA	68	NM	NM	NM
	05/24/05	340	340	310	0.7	< 0.1	6.8	< 0.05	NA	81	NM	NM	NM
	03/15/05	370	370	280	0.9	< 0.1	7.1	< 0.05	NA	80	NM	NM	NM
	12/14/04	360	360	230	0.7	< 0.1	5.4	< 0.05	NA	46	NM	NM	NM
	08/11/04	380	380	220	0.47	< 0.1	5.2	< 0.05	NA	50	NM	NM	NM
	05/26/04	340	340	230	1.3	< 0.1	5.5	< 0.05	NA	56	NM	NM	NM
	03/10/04	350	350	290	0.7	< 0.1	7	< 0.05	NA	83	NM	NM	NM
	12/03/03	370	370	200	0.6	< 0.1	5.1	< 0.05	NA	49	NM	NM	NM
	08/13/03	420	420	200	0.7	< 0.5	5.7 b,J-	< 0.25 UJ	NA	66	NM	NM	NM
	06/05/03	360	360	260	0.6	< 0.1	7.5	< 0.05	NA	82	NM	NM	NM
LF5SP100	03/21/06	110	110	55	8.15	< 0.1	0.31	< 0.05	NA	24	NM	7.67	8.6
	06/01/05	NA	NA	NA	NM	NA	NA	NA	NA	NA	NM	NM	NM
	03/22/05	55	55	27	9.4	< 0.1	0.34	< 0.05	NA	14	NM	NM	NM
	12/05/03	88	88	97	8.9	0.18	1.4	< 0.05	NA	54	NM	NM	NM
DUP1205031A	12/05/03	80	80	97	--	0.18	1.4	< 0.05	NA	54	NM	NM	NM
LF5SP100CL	12/05/03	72	72	99.6	--	0.13	1.5 J-	0.067	1.6 J-	54.4	NM	NM	NM
	08/14/03	NA	NA	NA	NM	NA	NA	NA	NA	NA	NM	NM	NM
	06/10/03	NA	NA	NA	NM	NA	NA	NA	NA	NA	NM	NM	NM
1349MW01	03/01/07	290	290	860	1.28	< 0.1	1.6	< 0.1	NA	280	145.0	7.50	10.8
DUP0301073A	03/01/07	280	280	840	NM	< 0.1	1.6	< 0.1	NA	270	NM	NM	NM
1349MW01CL	03/01/07	260	NA	NA	NA	0.3	1.4	< 0.1	NA	284	NA	NA	NA
	03/16/06	310	310	850	0.54	< 0.1	1.7	< 0.1	NA	300	186.5	6.41	13.8
	03/21/05	270	270	690	0.3	< 0.1	2.1	< 0.1	NA	230	NM	NM	NM
	03/15/04	280	280	740	0.39	0.11	2.2	< 0.1	NA	250	NM	NM	NM
	12/02/03	310	310	690	1.1	0.14	2.2	< 0.05	NA	220	NM	NM	NM
	08/21/03	310	310	700	1.42	< 0.2	1.8	< 0.1	NA	220	NM	NM	NM
	06/10/03	380	380	740	1.29	< 0.2	2.1	< 0.1	NA	230	NM	NM	NM
	03/12/03	NA	NA	NA	1.59	NA	NA	NA	NA	NA	NM	NM	NM

Table A-9-1
Results of General Chemistry Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	°C
1349MW01	12/09/02	360	360	750	0.76	< 0.2	1.7	< 0.1	NA	210	NM	NM	NM
DUP1209021A	12/09/02	350	350	750	--	< 0.2	1.8	< 0.1	NA	220	NM	NM	NM
1349MW01CL	12/09/02	350	350	360	--	1	1.4 J-	< 0.05 UJ	1.4 J-	220	NM	NM	NM
	08/28/02	270	270	740	1.34	0.13	1.7	< 0.05	NA	240	NM	NM	NM
	05/30/02	320	320	810	1.37	0.091 J	1.7	< 0.05	NA	230	NM	NM	NM
	03/06/02	290	290	830	2.13	0.13	1.8	< 0.05	NA	250	NM	NM	NM
	11/28/01	310	310	820	1.36	0.13	1.8	< 0.05	NA	240	NM	NM	NM
	08/30/01	420	420	740	0.61	0.24	1.3	< 2.5	NA	180	NM	NM	NM
DUP0830013A	08/30/01	430	430	740	--	0.14	1.2	< 2.5	NA	180	NM	NM	NM
1349MW01CL	08/30/01	340	340	760	--	< 0.05	1.4 [2]	< 2.5	NA	210	NM	NM	NM
	05/10/01	330	330	760	1.45	0.19	1.4	< 0.05	NA	220	NM	NM	NM
	05/19/99	433	433	820	0.83	0.2	NA	NA	0.537	188	NM	NM	NM
	02/19/99	468	468	731	1.83	0.15	NA	NA	0.641	192	NM	NM	NM
	11/18/98	361	361	666	1.59	0.17	NA	NA	0.62	205	NM	NM	NM
	08/18/98	574	574	701	2.24	0.11	NA	NA	0.404	161	NM	NM	NM
	04/16/98	377	377	679	2.89	0.12	NA	NA	0.715	221	NM	NM	NM
	01/22/98	509	509	673	1	0.124	NA	NA	0.416	159	NM	NM	NM
	10/30/97	527	527	726	0.37	< 0.05	0.478	NA	0.368	158	NM	NM	NM
	07/31/97	466	466	777	0.5	NA	0.532	NA	0.617	192	NM	NM	NM
	05/01/97	489	489	768	1.17	NA	0.451	NA	NA	190	NM	NM	NM
	02/10/97	374	374	888	1.26	NA	0.635	NA	< 0.05	262	NM	NM	NM
	08/08/95	NA	NA	NA	NM	NA	NA	NA	NA	NA	NM	NM	NM
1349MW02	02/28/07	760	760	1,100	1.26	< 0.2	1.4	< 0.15	NA	160	69.7	5.79	11.8
	03/10/06	660	660	740	0.56	< 0.1	1.3	< 0.1	NA	78	-18.1	7.29	13.2
	08/31/05	710	710	770	0.8	< 0.1 UJ	1.2	< 0.1 UJ	NA	88	NM	NM	NM
	05/25/05	650	650	710	0.5	< 0.1	1.2	< 0.1	NA	68	NM	NM	NM
	03/21/05	630	630	860	0.1	< 0.1	1.3	< 0.1	NA	67	NM	NM	NM
	12/16/04	710	710	620	0.8	< 0.1	1.6	< 0.1	NA	66	NM	NM	NM
	08/12/04	700	700	600	0.4	< 0.1	1.5	< 0.1	NA	64	NM	NM	NM
	05/26/04	660	660	650	0.59	0.11	1.3	< 0.1	NA	64	NM	NM	NM
	03/15/04	630	630	670	0.44	< 0.1	1.4	< 0.1	NA	66	NM	NM	NM
	12/02/03	720	720	600	0.6	< 0.1	1.6	< 0.05	NA	64	NM	NM	NM
	08/13/03	710	710	550	1.6	< 1	1.3 b,J-	< 0.5 UJ	NA	73	NM	NM	NM
	06/05/03	630	630	610	1.3	< 0.2	1.6	< 0.1	NA	62	NM	NM	NM
DUP0605032A	06/05/03	620	620	610	--	< 0.2	1.6	< 0.1	NA	62	NM	NM	NM

Table A-9-1
Results of General Chemistry Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	°C
1349MW02	03/12/03	NA	NA	NA	0.3	NA	NA	NA	NA	NA	NM	NM	NM
	12/04/02	660	660	580	1.8	< 0.2	1.7	< 0.1	NA	62	NM	NM	NM
DUP1204023A	12/04/02	670	670	560	--	< 0.2	1.7	< 0.1	NA	63	NM	NM	NM
	08/28/02	670	670	570	1	0.12	1.6	< 0.05	NA	68	NM	NM	NM
	05/30/02	680	680	630	0.7	0.12	1.6	< 0.05	NA	60	NM	NM	NM
	03/06/02	640	640	680	1.2	0.13	1.6	< 0.05	NA	58	NM	NM	NM
DUP0306022A	03/06/02	640	640	670	--	0.13	1.6	< 0.05	NA	59	NM	NM	NM
	11/28/01	670	670	580	2.25	0.091 J	1.7	< 0.05	NA	60	NM	NM	NM
DUP1128011A	11/28/01	680	680	570	--	0.1 J	1.8	< 0.05	NA	56	NM	NM	NM
	08/30/01	660	660	570	NM	0.11	1.7	< 0.05	NA	64	NM	NM	NM
DUP0830012A	08/30/01	660	660	550	--	0.11	1.7	< 0.05	NA	63	NM	NM	NM
1349MW02CL	08/30/01	660	660	550	--	< 0.1	1.5 [2]	< 0.05	NA	56	NM	NM	NM
	05/10/01	660	660	570	1.3	0.12	1.7	< 0.05	NA	62	NM	NM	NM
	05/19/99	680	680	724	0.51	< 0.1	NA	NA	1.58	76	NM	NM	NM
	02/19/99	706	706	766	0.6	< 0.1	NA	NA	1.29	80	NM	NM	NM
	11/18/98	694	694	690	0.71	< 0.1	NA	NA	1.22	69	NM	NM	NM
	08/18/98	688	688	637	0.39	< 0.1	NA	NA	1.24	69	NM	NM	NM
	04/16/98	629	629	555	0.9	< 0.1	NA	NA	1.23	64	NM	NM	NM
	01/22/98	689	689	586	1.34	< 0.1	NA	NA	1.12	60	NM	NM	NM
	10/30/97	700	700	653	0.33	< 0.05	1.3	NA	1.21	72	NM	NM	NM
	07/31/97	679	679	662	0.62	NA	1.29	NA	1.2	73	NM	NM	NM
	05/01/97	696	696	661	0.31	NA	1.18	NA	NA	61	NM	NM	NM
	02/10/97	548	548	501	0.5	NA	0.924	NA	1.3	52	NM	NM	NM
	08/08/95	NA	NA	NA	NM	NA	NA	NA	NA	NA	NM	NM	NM
1349MW03R	08/17/06	NA	NA	NA	NM	NA	NA	NA	NA	NA	NM	7.70	16.8
	03/16/06	440	440	860	1.1	< 0.1	6.3	< 0.1	NA	120	210	7.76	15.8
	11/30/05	NA	NA	NA	0.4	NA	NA	NA	NA	NA	NM	NM	NM
	08/31/05	390	390	170	0.4	< 0.1	5.9	< 0.05	NA	39	NM	NM	NM
	05/25/05	390	390	560	0.6	< 0.1	6.3	< 0.1	NA	84	NM	NM	NM
	03/21/05	350	350	960	7.7	< 0.1	5.4	< 0.1	NA	130	NM	NM	NM
	12/16/04	350	350	78	4.8	< 0.1	5.2	< 0.05	NA	29	NM	NM	NM
	08/10/04	350	350	68	3.94	< 0.1	4.6	< 0.05	NA	30	NM	NM	NM
	05/26/04	340	340	79	5.7	< 0.1	4.5	< 0.05	NA	31	NM	NM	NM
	03/09/04	380	380	78	7.08	< 0.1	4.5	< 0.05	NA	33	NM	NM	NM

Table A-9-1
Results of General Chemistry Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	°C
1349MW03R	12/02/03	350	350	72	5.2	< 0.1	4.8	< 0.05	NA	22	NM	NM	NM
	08/13/03	360	360	78	4.8	< 0.5	4.5 b,J-	< 0.25 UJ	NA	32	NM	NM	NM
	06/09/03	330	330	130	2.6	0.37	4.7	0.1	NA	33	NM	NM	NM
1349MW100	06/06/07	470	470	910	0.26	0.3	< 0.1	< 0.1	NA	5	63.0	6.34	14.9
	06/06/07	920	920	1,100	--	0.29	< 0.1	< 0.1	NA	5	--	--	--
	06/06/07	972	972	840	--	< 1	< 0.5	< 2	NA	3.8	--	--	--
	03/01/07	1000	1000	820	0.81	0.32	< 0.05	< 0.1	NA	0.54	154.0	5.68	11.7
DUP0301073B	03/01/07	980	980	820	NM	0.26	< 0.05	< 0.1	NA	0.59	NM	NM	NM
	12/05/06	1,000	1,000	990	1.6	0.33	< 0.05	< 0.1	NA	< 0.5	-239	5.8	15
	08/16/06	850	850	810	0.81	0.2	< 0.05	< 0.1	NA	44	-118.2	6.40	16.8
	05/24/06	910	910	850	1.1	0.23	< 0.05	< 0.1	NA	60	-77.5 NM	6.37	NA
DUP0524063A	05/24/06	860	860	830	NA	0.23	< 0.05	< 0.1	NA	65	NA	NA	NA
1349MW100CL	05/24/06	820	NA	930	NA	< 1 U	< 0.02 U UJ	< 0.02 U	NA	55.9	NA	NA	NA
	03/16/06	930	930	760	0.33	0.24	< 0.05	< 0.1	NA	50	74.7	6.44	15.2
	11/30/05	940 J+	940	1,300	0.3	0.34	< 0.1	< 0.15	NA	< 1	NM	NM	NM
	08/31/05	860	860	1,500	0.3	0.31 J-	< 0.1	< 0.2 UJ	NA	8.7	NM	NM	NM
	05/25/05	910	910	810	0.3	0.2	< 0.05	< 0.1	NA	35	NM	NM	NM
	03/23/05	870	870	820	0.10	0.27	< 0.05	< 0.1	NA	37	NM	NM	NM
	12/16/04	940	940	1,200	0.2	0.28	< 0.05	< 0.25	NA	< 0.5	NM	NM	NM
	08/10/04	970	970	1,000	0.7	0.29	< 0.05	< 0.1	NA	0.51	NM	NM	NM
	05/27/04	940	940	1,100	0.55	0.28	< 0.05	< 0.1	NA	2	NM	NM	NM
	03/16/04	900	900	830	0.37	0.24	< 0.05	< 0.1	NA	10	NM	NM	NM
	12/02/03	890	890	1,200	1	0.24	< 0.1	< 0.1	NA	< 1	NM	NM	NM
	08/12/03	800	800	1,100	0.5	< 0.5	< 0.25	< 0.25	NA	< 2.5	NM	NM	NM
	06/09/03	860	860	890	1.8	< 0.5	< 0.25	< 0.25	NA	3.5	NM	NM	NM
	03/12/03	810	810	840	0.6	< 0.2	< 0.1	< 0.1	NA	7.7	NM	NM	NM
	12/10/02	660	660	1,300	0.9	< 0.2	< 0.1	< 0.1	NA	9.2	NM	NM	NM
1349MW101	03/01/07	NA	NA	NA	1.28	NA	NA	NA	NA	NA	145.0	7.50	10.8
	08/17/06	NA	NA	NA	NM	NA	NA	NA	NA	NA	NM	8.10	18.3
	03/16/06	330	330	180	1.11	< 0.1	2.8	< 0.05	NA	16	160.7	8.06	16
	08/31/05	280	280	190	0.7	< 0.1	2.5	< 0.05	NA	15	NM	NM	NM
	05/25/05	290	290	200	0.4	< 0.1	2.3	< 0.05	NA	15	NM	NM	NM
DUP0525052A	05/25/05	270	270	200	--	< 0.1	2.3	< 0.05	NA	15	NM	NM	NM
	03/21/05	280	280	210	0.20	< 0.1	3	< 0.05	NA	18	NM	NM	NM
	12/15/04	260	260	230	0.3	< 0.1	2.8	< 0.05	NA	17	NM	NM	NM
	03/09/04	260	260	210	3.52	0.13	3.5	< 0.05	NA	19	NM	NM	NM
	12/02/03	390	390	230	1.4	0.14	2.4	< 0.05	NA	19	NM	NM	NM
	08/19/03	280	280	260	1.7	0.25	2.5	< 0.05	NA	25	NM	NM	NM
	06/09/03	230	230	300	1.1	0.47	4.3	0.13	NA	38	NM	NM	NM

Table A-9-1
Results of General Chemistry Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	°C
1349MW102	08/17/06	NA	NA	NA	NM	NA	NA	NA	NA	NA	NM	6.50	18.2
	03/07/06	470	470	240	0.15	0.25	2	< 0.05	NA	140	-6.9	6.72	14.2
DUP0307063C	03/07/06	500	500	240	--	0.24	2	< 0.05	NA	130	-6.9	6.72	14.2
1349MW102CL	03/07/06	416	416	220	--	< 1 U	2.33	0.025	NA	156	-6.9	6.72	14.2
	08/31/05	420	420	210	0.9	0.19	1.7	< 0.05	NA	73	NM	NM	NM
DUP0831052A	08/31/05	450	450	200	--	0.19	1.7	< 0.05	NA	71	NM	NM	NM
	05/25/05	390	390	150	0.5	0.15	2.8	< 0.05	NA	95	NM	NM	NM
	03/21/05	500	520	330	0.4	0.23	2	< 0.05	NA	79	NM	NM	NM
DUP0321053A	03/21/05	520	500	340	--	0.24	1.80	< 0.05	NA	79	NM	NM	NM
	12/16/04	630	630	450	1.08	0.25	0.71	< 0.05	NA	47	NM	NM	NM
	08/10/04	580	580	400	1.54	0.24	0.8	< 0.05	NA	42	NM	NM	NM
DUP0810042A	08/10/04	570	570	420	--	0.24	0.54	< 0.05	NA	41	NM	NM	NM
	05/27/04	600	600	410	1.1	0.27	0.52	< 0.05	NA	44	NM	NM	NM
DUP0527041A	05/27/04	630	630	400	--	0.26	0.74	< 0.05	NA	47	NM	NM	NM
1349MW102CL	05/27/04	620	620	88	--	0.29	0.6	< 0.05	0.6	18	NM	NM	NM
	03/10/04	540	540	470	0.5	0.27	0.4	< 0.05	NA	48	NM	NM	NM
DUP0310041A	03/10/04	550	550	470	--	0.27	0.4	< 0.05	NA	47	NM	NM	NM
1349MW102CL	03/10/04	530	530	450	--	0.28	0.45 J	< 0.05 UJ	0.45 HT-04,J	44	NM	NM	NM
	12/10/03	690	690	480	2	0.29	0.09	< 0.05	NA	43	NM	NM	NM
DUP1210031A	12/10/03	670	670	480	--	0.28	0.1	< 0.05	NA	43	NM	NM	NM
	08/12/03	740	740	430	1.1	0.47	0.17 b,J	< 0.1 UJ	NA	47	NM	NM	NM
	06/09/03	660	660	560	1.9	0.35	0.14	< 0.1	NA	68	NM	NM	NM
DUP0609032A	06/09/03	650	650	570	--	0.34	0.11	< 0.1	NA	70	NM	NM	NM
1349MW102CL	06/09/03	670	670	490	--	0.6	0.13	< 0.05	0.13	59	NM	NM	NM

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - The QC laboratory nitrate results shown have been converted to nitrate as nitrogen (nitrate-N) as other laboratory results are reported. The QC laboratory reported nitrate as NO_3 concentrations (nitrate-NO_3) which are 4.43 times higher than nitrate-N concentrations.
mg/L - milligrams per liter
NA - not analyzed
NM - not measured
"--" dissolved oxygen measurements were not taken for duplicate and quality control samples.
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.
ORP - Oxidation Reduction Potential
mV - millivolts
°C - degrees centigrade

Table A-9-2
Results of TPH Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [3]		**443**	**880**	**1,200**
LF5GW100	03/09/06	< 50	52 Y	< 300
	08/30/05	< 50	< 50	< 300
	05/26/05	< 50	< 50	< 300
DUP0526051A	05/26/05	< 50	< 50	< 300
LF5GW100CL	05/26/05	< 50 U	56	< 300 U
	03/28/05	< 50	< 50	< 300
	12/16/04	< 50	< 50	< 300
DUP1216041A	12/16/04	< 50	< 50	< 300
	08/12/04	< 50	< 50	< 300
	05/26/04	< 50	< 50	< 300
	03/15/04	< 50	< 50	< 300
	12/04/03	< 50	< 50	< 300
	08/14/03	< 50	< 50	< 300
	06/05/03	< 50	< 50	< 300
	12/04/02	< 50	< 50	< 300
	08/29/02	< 50	< 50	< 300
	05/30/02	< 50	< 50	< 300
	03/06/02	< 50	< 50	< 300
	11/28/01	< 50	< 50	< 300
	08/30/01	< 50	< 50 [2]	< 300 [2]
	05/10/01	< 50	< 50	< 300
LF5GW100CL	05/10/01	< 50	87 ndp	< 50
	07/21/00	< 50	< 50	NA
LF5GW101	03/09/06	< 50	51 Y	< 300
	08/30/05	< 50	< 50	< 300
	05/26/05	< 50	< 50	< 300
	03/28/05	< 50	< 50	< 300
	12/16/04	< 50	< 50	< 300
	08/12/04	< 50	< 50	< 300
	05/26/04	< 50	< 50	< 300
	03/15/04	< 50	< 50	< 300
	12/04/03	< 50	< 50	< 300
	08/14/03	< 50	< 50	450
	06/05/03	< 50	< 50	< 300
	12/04/02	< 50	< 50	< 300
	08/29/02	< 50	< 50	< 300
	05/30/02	< 50	< 50	< 300
	03/06/02	< 50	< 50	< 300
	11/28/01	< 50	< 50	< 300
	08/30/01	< 50	< 50 [2]	< 300 [2]
	05/10/01	< 50	< 50	< 300
	07/21/00	< 50	< 50	NA
LF5GW102	03/09/06	< 50	61 Y	< 300
	08/30/05	< 50	< 50	< 300
DUP0830053A	08/30/05	< 50	< 50	< 300
LF5GW102CL	08/30/05	< 50 U	< 50 U	< 300 U
	05/26/05	< 50	51 Y	< 300
	03/21/05	< 50	< 50	< 300
	12/14/04	< 50	< 50	< 300

Table A-9-2
Results of TPH Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [3]		**443**	**880**	**1,200**
LF5GW102	08/11/04	< 50	< 50	< 300
	05/27/04	< 50	< 50	< 300
	03/10/04	< 50	< 50	< 300
	12/03/03	< 50	< 50	< 300
DUP1203031A	12/03/03	< 50	< 50	< 300
LF5GW102CL	12/03/03	< 50	< 48	< 240
	08/13/03	< 50	< 50	< 300
	06/06/03	< 50	< 50	< 300
LF5GW103	03/09/06	< 50	< 50	< 300
	08/30/05	< 50	< 50	< 300
	05/24/05	< 50	< 50	< 300
	03/15/05	< 50	< 50	< 300
	12/14/04	< 50	< 50	< 300
	08/11/04	< 50	< 50	< 300
	05/27/04	< 50	< 50	< 300
	03/10/04	< 50	< 50	< 300
	12/03/03	< 50	< 50	< 300
	08/19/03	< 50	< 50	< 300
DUP0819032A	08/19/03	< 50	< 50	< 300
LF5GW103CL	08/19/03	< 50	< 50	< 250
	06/05/03	< 50	< 50	< 300
LF5GW104	03/07/06	< 50	< 50	< 300
DUP0307063B	03/07/06	< 50	50 Y	< 300
LF5GW104CL	03/07/06	< 50 U	< 50 U	< 300 U
	08/30/05	< 50	< 50	< 300
	05/24/05	< 50	< 50	< 300
	03/15/05	< 50	< 50	< 300
	12/14/04	< 50	< 50	< 300
	08/11/04	< 50	< 50	< 300
	05/26/04	< 50	< 50	< 300
	03/10/04	< 50	< 50	< 300
	12/03/03	< 50	< 50	< 300
	08/13/03	< 50	< 50	< 300
	06/05/03	< 50	< 50	< 300
1349MW01 [4]	03/01/07	< 50	< 50	< 300
DUP0301073A	03/01/07	< 50	< 50	< 300
1349MW01CL	03/01/07	< 50	< 50	< 300
	03/16/06	< 50	79 HY	< 300
	03/21/05	< 50	< 50	< 300
	03/15/04	< 50	< 50	< 300
	12/02/03	< 50	< 50	< 300
	08/21/03	< 50	< 50	< 300
	06/10/03	< 50	< 50	< 300
	03/12/03	NA	< 50	< 300
	12/09/02	< 50	< 50	< 300
DUP1209021A	12/09/02	< 50	< 50	< 300
1349MW01CL	12/09/02	< 50	< 50	< 250
	08/28/02	< 50	< 50	< 300
	05/30/02	< 50	< 50	< 300

Table A-9-2
Results of TPH Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [3]		**443**	**880**	**1,200**
1349MW01 [4]	03/06/02	< 50	< 50	< 300
	11/28/01	< 50	< 50	< 300
	08/30/01	< 50	< 50 [3]	< 300 [3]
DUP0830013A	08/30/01	< 50	57 [3] Y,NJ	< 300 [3]
1349MW01CL	08/30/01	< 50	< 50	< 300
	05/10/01	< 50	< 50	< 300
	05/19/99	NA	< 50	< 300
	02/19/99	NA	< 50	< 300
	11/18/98	NA	< 50	< 300
	08/18/98	NA	< 50 (U15)	< 300
	04/16/98	NA	< 50	< 300
	01/22/98	NA	< 50	< 300
	10/30/97	NA	< 50	< 300
	07/31/97	NA	< 50	< 300
	05/01/97	NA	< 50	< 300
	02/10/97	NA	< 50	< 300
	11/25/96	NA	< 50	< 300
	09/12/96	NA	< 50	< 300
	08/08/95	NA	< 50	NA
1349MW02 [4]	02/28/07	< 50	< 50	< 300
	03/10/06	< 50	< 50	< 300
	08/31/05	< 50	< 50	< 300
	05/25/05	< 50	< 50	< 300
	03/21/05	< 50	< 50	< 300
	12/16/04	< 50	< 50	< 300
	08/12/04	< 50	< 50	< 300
	05/26/04	< 50	< 50	< 300
	03/15/04	< 50	< 50	< 300
	12/02/03	< 50	< 50	< 300
	08/13/03	< 50	290 HY	< 300
	06/05/03	< 50	< 50	< 300
DUP0605032A	06/05/03	< 50	< 50	< 300
	03/12/03	NA	< 50	< 300
	12/04/02	< 50	< 50	< 300
DUP1204023A	12/04/02	< 50	< 50	< 300
	08/28/02	< 50	< 50	< 300
	05/30/02	< 50	< 50	< 300
	03/06/02	< 50	< 50	< 300
DUP0306022A	03/06/02	< 50	< 50	< 300
	11/28/01	< 50	< 50	< 300
DUP1128011A	11/28/01	< 50	< 50	< 300
	08/30/01	< 50	57 [3] Y,NJ	< 300 [3]
DUP0830012A	08/30/01	< 50	67 [3] Y,NJ	< 300 [3]
1349MW02CL	08/30/01	< 50	< 50	< 300
	05/10/01	< 50	< 50	< 300
	05/19/99	NA	< 50	< 300
	02/19/99	NA	< 50	< 300
	11/18/98	NA	< 50	< 300
	08/18/98	NA	< 50 (U15)	< 300
	04/16/98	NA	< 50	< 300

Table A-9-2
Results of TPH Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [3]		**443**	**880**	**1,200**
1349MW02 [4]	01/22/98	NA	< 50	< 300
	10/30/97	NA	< 50	< 300
	07/31/97	NA	58 (R32)	< 300
	05/01/97	NA	< 50	< 300
	02/10/97	NA	< 50	< 300
	11/25/96	NA	< 50	< 300
	09/12/96	NA	< 50	< 300
	08/08/95	NA	< 50	NA
1349MW03R	03/16/06	< 50	< 50	< 300
	08/31/05	< 50	< 50	< 300
	05/25/05	< 50	< 50	< 300
	03/21/05	< 50	< 50	< 300
	12/16/04	< 50	< 50	< 300
	08/10/04	< 50	< 50	< 300
	05/26/04	< 50	< 50	< 300
	03/09/04	< 50	81 HY	770 Z
	12/02/03	< 50	< 50	< 300
	08/13/03	< 50	< 50	< 300
	06/09/03	< 50	< 50	< 300
1349MW100 [4]	06/06/07	5,000 HY	13,000	< 300
	06/06/07	1,500 HY	20,000	360 LY
	06/06/07	580 H	29,000 Y	700 L
	03/01/07	1,200 HY	15,000	< 300
DUP0301073B	03/01/07	620 HY	15,000	670 LY
	12/05/06	1,200 H	13,000	< 300
	08/16/06	820 HY	42,000	< 1,500
	05/24/06	690 HY	3,600	< 300
DUP0524063A	05/24/06	490 HY	5,200	< 300
1349MW100CL	05/24/06	350	5,400	< 2,100 U
	03/16/06	1,300 HY	6,900	< 300
	11/30/05	450 HY	26,000	< 900
	08/31/05	630 HY	20,000	< 300
	05/25/05	690 H	5,100	< 300
	03/23/05	960 HY	24,000	< 600
1349MW100 [4]	12/16/04	1,400 HY J+	6,300	< 300
	08/10/04	3,000 HY	5,000	< 300
	05/27/04	920 HY	3,600	< 300
	03/16/04	930 H	31,000	< 600
	12/02/03	1,000 HY,J+	1,100 LY	< 300
	08/12/03	700 YH	9,000	< 300
	06/09/03	1,200 YH	5,100	< 300
	03/12/03	610 YH	1,800	< 300
	12/10/02	230 Y	1,500	< 300
1349MW101	03/16/06	< 50	< 50	< 300
	08/31/05	< 50	< 50	< 300
	05/25/05	< 50	< 50	< 300
DUP0525052A	05/25/05	< 50	< 50	< 300
	03/21/05	< 50	< 50	< 300
	12/15/04	< 50	< 50	< 300
	03/09/04	< 50	< 50	< 300
	12/02/03	< 50	< 50	< 300
	08/19/03	< 50	< 50	< 300
	06/09/03	< 50	< 50	< 300

Table A-9-2
Results of TPH Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [3]		**443**	**880**	**1,200**
1349MW102	03/07/06	< 50	< 50	< 300
DUP0307063C	03/07/06	< 50	< 50	< 300
1349MW102CL	03/07/06	< 50 U	60 J+	< 300 U
	08/31/05	< 50	< 50	< 300
DUP0831052A	08/31/05	< 50	< 50	< 300
	05/25/05	< 50	< 50	< 300
	03/21/05	< 50	< 50	< 300
DUP0321053A	03/21/05	< 50	< 50	< 300
	12/16/04	< 50	< 50	< 300
	08/10/04	< 50	< 50	< 300
	08/10/04	< 50	< 50	< 300
1349MW102	05/27/04	< 50	51 Y	< 300
DUP0527041A	05/27/04	< 50	< 50	< 300
1349MW102CL	05/27/04	< 50	54	< 240
	03/10/04	< 50	< 50	< 300
DUP0310041A	03/10/04	< 50	< 50	< 300
1349MW102CL	03/10/04	< 50	NA	NA
	12/10/03	< 50	< 50	< 300
DUP1210031A	12/10/03	< 50	< 50	< 300
	08/12/03	< 50	< 50	< 300
	06/09/03	< 50	< 50	< 300
DUP0609032A	06/09/03	< 50	< 50	< 300
1349MW102CL	06/09/03	< 50	< 50	< 250

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - TPH analysis was not run using the silica gel cleanup method 3630A, although it was marked on the chain of custody.
3 - Groundwater cleanup levels were taken from the *Remedial Action Plan and Evaluation of Alternatives for Landfill 4 and Fill Site 5, Presidio of San Francisco, California* (Treadwell & Rollo, 2002e).
4 - Monitoring wells 1349MW01, 1349MW02, and 1349MW100 are located upgradient of Fill Site 5, therefore, the cleanup levels do not apply to these wells.
µg/L - micrograms per liter
NA - not analyzed
TPH - total petroleum hydrocarbons
Bold numbers indicate concentrations which exceed cleanup criteria.
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-9-3
Results of VOC Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	2-Butanone	Benzene	Bromoform	Carbon Disulfide	Dibromochloromethane	1,2-DCA	Ethylbenzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**1**	**--**	**--**	**--**	**0.5**	**700**	**--**	**150**	**318**	**--**
LF5GW100	03/09/06	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	08/30/05	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/28/05	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	08/12/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/26/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/15/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/14/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/05/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/29/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/30/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/06/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/28/01	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/30/01	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/10/01	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
LF5GW100CL	05/10/01	< 10	< 1	< 1	< 0.5	< 1	< 1	< 1	NA	< 1	< 1	ND
	07/21/00	< 10	< 5	< 5	< 5	< 5	< 5	< 5	NA	< 5	< 5	ND
LF5GW101	03/09/06	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	08/30/05	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/28/05	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	08/12/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/26/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/15/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/14/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/05/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/29/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/30/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/06/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/28/01	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/30/01	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/10/01	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	07/21/00	< 10	< 5	< 5	< 5	< 5	< 5	< 5	NA	< 5	< 5	ND
LF5GW102	03/09/06	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	08/30/05	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
DUP0830053A	08/30/05	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
LF5GW102CL	08/30/05	< 10 U	< 0.5 U	< 1 U	< 5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 2 U	< 0.5 U	< 1 U	ND
	03/21/05	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	08/11/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/27/04	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/10/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/03/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP1203031A	12/03/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
LF5GW102CL	12/03/03	< 5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/06/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
LF5GW103	03/09/06	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	08/30/05	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/15/05	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	08/11/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/27/04	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/10/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/03/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/19/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0819032A	08/19/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
LF5GW103CL	08/19/03	< 5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/05/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND

Table A-9-3
Results of VOC Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	2-Butanone	Benzene	Bromoform	Carbon Disulfide	Dibromochloromethane	1,2-DCA	Ethylbenzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**1**	**--**	**--**	**--**	**0.5**	**700**	**--**	**150**	**318**	**--**
LF5GW104	03/07/06	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
DUP0307063B	03/07/06	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
LF5GW104CL	03/07/06	< 10 U	< 0.5 U	< 1 U	< 5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 2 U	< 0.5 U	< 1 U	ND
	08/30/05	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/15/05	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	08/11/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/26/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/10/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/03/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/05/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
LF5SP100	03/21/06	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/22/05	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	12/05/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP1205031A	12/05/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
LF5SP100CL	12/05/03	< 5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
1349MW01 [3]	03/01/07	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
DUP0301073A	03/01/07	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
1349MW01CL	03/01/07	< 10 R	< 0.5	< 1 UJ	< 5	< 0.5	< 0.5	< 0.5	< 2	< 0.5	< 1	ND
	03/16/06	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/21/05	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/15/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/21/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/10/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/12/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/09/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	ND
DUP1209021A	12/09/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	ND
1349MW01CL	12/09/02	< 5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/28/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/30/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/06/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/28/01	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/30/01	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0830013A	08/30/01	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
1349MW01CL	08/30/01	< 50	< 0.5	< 1	< 0.5	< 1	< 1	< 0.5	< 5	< 0.5	< 0.5	ND
	05/10/01	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5 UJ	< 0.5 UJ	ND
	02/19/99	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	11/18/98	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	08/18/98	NA	< 0.5 U18	NA	NA	NA	NA	< 0.5 U18	NA	< 0.5 U18	< 0.5 U18	ND
	04/16/98	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	01/22/98	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	10/30/97	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	07/31/97	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	05/01/97	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	02/10/97	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	11/25/96	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	09/12/96	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	0.54	< 0.5	ND
	08/08/95	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
1349MW02 [3]	02/28/07	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/10/06	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	08/31/05	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	05/25/05	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/21/05	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/15/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND

Table A-9-3
Results of VOC Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	2-Butanone	Benzene	Bromoform	Carbon Disulfide	Dibromochloromethane	1,2-DCA	Ethylbenzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**1**	**--**	**--**	**--**	**0.5**	**700**	**--**	**150**	**318**	**--**
1349MW02 [3]	06/05/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0605032A	06/05/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/12/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP1204023A	12/04/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/28/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/30/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/06/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0306022A	03/06/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/28/01	< 10	0.8	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.5	< 0.5	ND
DUP1128011A	11/28/01	< 10	1.1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.3	0.7	ND
	08/30/01	< 10	< 0.5	< 1	1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0830012A	08/30/01	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
1349MW02CL	08/30/01	< 50	< 0.5	< 1	< 0.5	< 1	< 1	< 0.5	< 5	< 0.5	< 0.5	ND
	05/10/01	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/19/99	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	11/18/98	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	08/18/98	NA	< 0.5 U18	NA	NA	NA	NA	< 0.5 U18	NA	< 0.5 U18	< 0.5 U18	ND
	04/16/98	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	01/22/98	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	10/30/97	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	07/31/97	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	05/01/97	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	02/10/97	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	11/25/96	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	09/12/96	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	08/08/95	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
1349MW03R	03/16/06	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	08/31/05	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/21/05	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/09/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/09/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
1349MW100 [3]	06/06/07	< 10	25	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	0.8	ND
	06/06/07	< 10	24	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.7	ND
	06/06/07	< 10 R	21 J+	< 1	< 5	< 0.5	< 0.87 i	< 0.5	< 2	< 0.5	< 1	ND
	03/01/07	< 10	29	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.4	ND
DUP0301073B	03/01/07	< 10	28	< 1	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.5	ND
	12/05/06	< 10	18	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.3	ND
	08/16/06	< 10	23	< 1	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	05/24/06	< 10	29	< 1	0.7	< 0.5	< 0.5	0.8	< 0.5	< 0.5	3.8	ND
DUP0524063A	05/24/06	< 10	28	< 1	0.8	< 0.5	< 0.5	0.8	< 0.5	< 0.5	3.7	ND
1349MW100CL	05/24/06	< 10 U	30	< 1 U	< 5 U	< 0.5 U	< 0.5 U	0.9	< 2 U	< 0.5 U	4.2	ND
	03/16/06	< 10	22	< 1	< 0.5	< 0.5	< 0.5	0.8	< 0.5	< 0.5	0.8	ND
	11/30/05	< 10	18	< 1	< 0.5	< 0.5	< 0.5	0.6	< 0.5	< 0.5	1.5	ND
	08/31/05	< 10	20	< 1	< 0.5	< 0.5	< 0.5	0.6	< 0.5	< 0.5	< 1	ND
	05/25/05	< 10	39	< 1	< 0.5	< 0.5	1.5	0.9	< 0.5	< 0.5	2	ND
	03/23/05	< 10 UJ	27	< 1	< 0.5	< 0.5	< 0.5	1.5	< 0.5	< 0.5	2.9	ND
	03/16/04	< 10	24	< 1	< 0.5	< 0.5	< 0.5	2.5	< 0.5	< 0.5	5.5	ND
	12/02/03	< 10	7.8	< 1	< 0.5	< 0.5	< 0.5	2	0.5	0.5	3.8	ND
	08/12/03	< 10	9.1	< 1	< 0.5	< 0.5	< 0.5	1.1	< 0.5	0.5	3	ND
	06/09/03	< 10	27	< 1	1.3	< 0.5	< 0.5	7	< 0.5	0.7	12	ND
	03/12/03	< 10	25	< 1	< 0.5 UJ	< 0.5	< 0.5	5	< 0.5	0.6	9.8	ND
	12/10/02	< 10	2.6	< 1	< 0.5	< 0.5	< 0.5	1.3	< 0.5 UJ	0.8	3	ND

Table A-9-3
Results of VOC Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	2-Butanone	Benzene	Bromoform	Carbon Disulfide	Dibromochloromethane	1,2-DCA	Ethylbenzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**1**	**--**	**--**	**--**	**0.5**	**700**	**--**	**150**	**318**	**--**
1349MW101	03/16/06	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	08/31/05	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/21/05	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/09/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/19/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/09/03	< 10	< 0.5	0.6 J	< 0.5	0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
1349MW102	03/07/06	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
DUP0307063C	03/07/06	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
1349MW102CL	03/07/06	< 10 U	< 0.5 U	< 1 U	< 5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 2 U	< 0.5 U	< 1 U	ND
	08/31/05	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
DUP0831052A	08/31/05	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/21/05	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
DUP0321053A	03/21/05	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
1349MW102	03/10/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0310041A	03/10/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
1349MW102CL	03/10/04	< 5	< 0.5	< 0.5	< 5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/10/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP1210031A	12/10/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/12/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/09/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0609032A	06/09/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
1349MW102CL	06/09/03	< 5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Groundwater cleanup levels were taken from the *Remedial Action Plan and Evaluation of Alternatives for Landfill 4 and Fill Site 5, Presidio of San Francisco, California* (Treadwell & Rollo, 2002e).
3 - Monitoring wells 1349MW01, 1349MW02 and 1349MW100 are located upgradient of Fill Site 5, therefore, the cleanup levels do not apply to these wells.
-- - cleanup level not established
µg/L - micrograms per liter
ND - not detected
NA - not analyzed
1,2-DCA - 1,2-dichloroethane
VOCs - volatile organic compounds
MTBE - methyl tert-butyl ether
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Bold numbers indicate concentrations which exceed cleanup criteria.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-9-4
Results of OCP and PCB Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	alpha-Chlordane	beta-BHC	delta-BHC	Dieldrin	Endosulfan II	Endrin	gamma-BHC	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Meth-oxychlor	All Other OCPs / PCBs
	Analytical Method[1]	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**--**	**--**	**--**	**--**	**0.037 [3]**	**--**	**0.056**	**--**	**--**	**0.05**	**--**	**0.025**	**--**	**--**	**--**
LF5GW100	08/17/06	< 0.09	< 0.09	< 0.09 # UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5 # UJ	ND / NA
	03/09/06	< 0.1	< 0.1	< 0.1 UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / NA
	08/30/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	05/26/05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
DUP0526051A	05/26/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
LF5GW100CL	05/26/05	< 0.1 U	< 0.1 U	< 0.1 U	< 0.05 U	< 0.5 U	< 0.05 U	< 0.05 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.05 U	< 0.5 U	< 0.05 U	< 0.05 U	< 0.5 U	ND
	03/28/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05 # UJ	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/16/04	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND
DUP1216041A	12/16/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/12/04	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
	05/26/04	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
	03/15/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/04/03	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.1 UJ	< 0.1 UJ	< 0.1 b,UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND
	08/14/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	06/05/03	< 0.1	< 0.1	< 0.1 UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/04/02	< 0.099	< 0.099	< 0.099	< 0.05	< 0.05	< 0.05	< 0.05	< 0.099	< 0.099	< 0.099	< 0.05	< 0.05	< 0.05	NA	< 0.5	ND
	08/29/02	< 0.099	< 0.099	< 0.099	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.099	< 0.099	< 0.099	< 0.05 UJ	< 0.05	< 0.05 UJ	NA	< 0.5	ND
	05/30/02	< 0.099	< 0.099	< 0.099	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.099	< 0.099	< 0.099	< 0.05 UJ	< 0.05	< 0.05 UJ	NA	< 0.5	ND
	03/06/02	< 0.098	< 0.098	< 0.098 UJ	< 0.049 UJ	< 0.049	< 0.049 UJ	< 0.049 UJ	< 0.098	< 0.098	< 0.098	< 0.049 UJ	< 0.049	< 0.049 UJ	NA	< 0.49	ND
	11/28/01	< 0.096	< 0.096	< 0.096	< 0.048	< 0.048	< 0.048	< 0.048	< 0.096	< 0.096	< 0.096	< 0.048	< 0.048	< 0.048	NA	< 0.48	ND
	08/30/01	< 0.098	< 0.098	< 0.098	< 0.049	< 0.049	< 0.049	< 0.049	< 0.098	< 0.098	< 0.098	< 0.049	< 0.049	< 0.049	NA	< 0.49	ND
	05/10/01	< 0.097 UJ	< 0.097 UJ	< 0.097 UJ	< 0.049 UJ	< 0.049 UJ	< 0.049 UJ	< 0.049 UJ	< 0.097 UJ	< 0.097 UJ	< 0.097 UJ	< 0.049 UJ	< 0.049 UJ	< 0.049 UJ	NA	< 0.49 UJ	ND
LF5GW100CL	05/10/01	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	ND
	07/21/00	< 0.094	< 0.094	< 0.094	< 0.094	NA	< 0.094	< 0.094	< 0.094	< 0.094	< 0.094	< 0.094	NA	< 0.094	< 0.094	< 0.094	ND
LF5GW101	08/17/06	< 0.1	< 0.1	< 0.1 # UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5 # UJ	ND / NA
	03/09/06	< 0.09	< 0.09	< 0.09 UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / NA
	08/30/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	05/26/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/28/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05 # UJ	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/16/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/12/04	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
	05/26/04	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
	03/15/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/04/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1 b,UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/14/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	06/05/03	< 0.1	< 0.1	< 0.1 UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/04/02	< 0.098	< 0.098	< 0.098	< 0.049	< 0.049	< 0.049	< 0.049	< 0.098	< 0.098	< 0.098	< 0.049	< 0.049	< 0.049	NA	< 0.49	ND
	08/29/02	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	NA	< 0.5	ND

Table A-9-4
Results of OCP and PCB Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	alpha-Chlordane	beta-BHC	delta-BHC	Dieldrin	Endosulfan II	Endrin	gamma-BHC	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Meth-oxychlor	All Other OCPs / PCBs
	Analytical Method[1]	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**--**	**--**	**--**	**--**	**0.037 [3]**	**--**	**0.056**	**--**	**--**	**0.05**	**--**	**0.025**	**--**	**--**	**--**
LF5GW101	05/30/02	< 0.099	< 0.099	< 0.099	< 0.05	< 0.05	< 0.05	< 0.05	< 0.099	< 0.099	< 0.099	< 0.05	< 0.05	< 0.05	NA	< 0.5	ND
	03/06/02	< 0.098	< 0.098	< 0.098 UJ	< 0.049 UJ	< 0.049	< 0.049 UJ	< 0.049 UJ	< 0.098	< 0.098	< 0.098	< 0.049 UJ	< 0.049	< 0.049 UJ	NA	< 0.49	ND
	11/28/01	< 0.096	< 0.096	< 0.096	< 0.048	< 0.048	< 0.048	< 0.048	< 0.096	< 0.096	< 0.096	< 0.048	< 0.048	< 0.048	NA	< 0.48	ND
	08/30/01	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	< 0.049	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	NA	< 0.49	ND
	05/10/01	< 0.097 UJ	< 0.097 UJ	< 0.097 UJ	< 0.049 UJ	< 0.049 UJ	< 0.049 UJ	< 0.049 UJ	< 0.097 UJ	< 0.097 UJ	< 0.097 UJ	< 0.049 UJ	< 0.049 UJ	< 0.049 UJ	NA	< 0.49 UJ	ND
	07/21/00	< 0.094	< 0.094	< 0.094	< 0.094	NA	< 0.094	< 0.094	< 0.094	< 0.094	< 0.094	< 0.094	NA	< 0.094	< 0.094	< 0.094	ND
LF5GW102	08/17/06	< 0.1	< 0.1	< 0.1 # UJ	< 0.05 # UJ	< 0.05 # UJ	< 0.05 UJ	< 0.05 # UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 # UJ	< 0.05 # UJ	< 0.5 # UJ	ND / NA
	03/09/06	< 0.1	< 0.1	< 0.1 # UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / NA
	08/30/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
DUP0830053A	08/30/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
LF5GW102CL	08/30/05	< 0.1 U	< 0.1 U	< 0.1 U	< 0.05 U	< 0.5 U	< 0.05 U	< 0.05 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.5 U	ND
	05/26/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/21/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/14/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/11/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	05/27/04	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
	03/10/04	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/03/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
DUP1203031A	12/03/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
LF5GW102CL	12/03/03	< 0.097	< 0.097	< 0.097	< 0.049	NA	< 0.049	< 0.049	< 0.097	< 0.097	< 0.097	< 0.049	< 0.49	< 0.049	< 0.049	< 0.49	ND
	08/13/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	06/06/03	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND
LF5GW103	08/17/06	< 0.1	< 0.1	< 0.1 # UJ	< 0.05 # UJ	< 0.05 # UJ	< 0.05	< 0.05 # UJ	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05 # UJ	< 0.05 # UJ	< 0.5 # UJ	ND / NA
	03/09/06	< 0.1	< 0.1	< 0.1 # UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / NA
	08/30/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	05/24/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/15/05	< 0.1 UJ	< 0.1 UJ	< 0.1 # UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 # UJ	ND
	12/14/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/11/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	05/27/04	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
	03/10/04	< 0.09	< 0.09	< 0.09	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.09	< 0.09	< 0.09	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
	12/03/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/19/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
DUP0819032A	08/19/03	< 0.09	< 0.09	< 0.09	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.09	< 0.09	< 0.09	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
LF5GW103CL	08/19/03	< 0.095 UJ	< 0.095 UJ	< 0.095 UJ	< 0.048	NA	< 0.048	< 0.048	< 0.095 UJ	< 0.095 UJ	< 0.095 UJ	< 0.048	< 0.48 UJ	< 0.048	< 0.048	< 0.48 UJ	ND
	06/05/03	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND

Table A-9-4
Results of OCP and PCB Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	alpha-Chlordane	beta-BHC	delta-BHC	Dieldrin	Endosulfan II	Endrin	gamma-BHC	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Meth-oxychlor	All Other OCPs / PCBs
	Analytical Method[1]	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**--**	**--**	**--**	**--**	**0.037 [3]**	**--**	**0.056**	**--**	**--**	**0.05**	**--**	**0.025**	**--**	**--**	**--**
LF5GW104	08/17/06	< 0.1	< 0.1	< 0.1 # UJ	< 0.05 # UJ	< 0.05 # UJ	< 0.05	< 0.05 # UJ	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05 # UJ	< 0.05 # UJ	< 0.5 # UJ	ND / NA
DUP0817062A	08/17/06	< 0.1	< 0.1	< 0.1 # UJ	< 0.05 # UJ	< 0.05 # UJ	< 0.05	< 0.05 # UJ	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05 # UJ	< 0.05 # UJ	< 0.5 # UJ	ND / NA
	03/07/06	< 0.09	< 0.09	< 0.09 # UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / NA
DUP0307063B	03/07/06	< 0.09	< 0.09	< 0.09 # UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / NA
LF5GW104CL	03/07/06	< 0.1 U UJ	< 0.1 U UJ	< 0.1 U UJ	< 0.05 U	< 0.5 U UJ	< 0.05 U	< 0.05 U	< 0.1 U UJ	< 0.1 U UJ	< 0.1 U UJ	< 0.05 U	NA	< 0.05 U	< 0.05 U	< 0.5 U UJ	ND / NA
	08/30/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	05/24/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/15/05	< 0.1 UJ	< 0.1 UJ	< 0.1 # UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 # UJ	ND
	12/14/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/11/04	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	05/26/04	< 0.09	< 0.09	< 0.09	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.09	< 0.09	< 0.09	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
	03/10/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	**0.07 C**	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/03/03	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/13/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	06/05/03	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND
LF5SP100	03/21/06	< 0.1	< 0.1	< 0.1 # UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5 # UJ	ND / NA
	03/22/05	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND
	12/05/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1 b,UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
DUP1205031A	12/05/03	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.1 UJ	< 0.1 UJ	< 0.1 b,UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND
LF5SP100CL	12/05/03	< 0.098 UJ	< 0.098 UJ	< 0.098 UJ	< 0.049 UJ	NA	< 0.049 UJ	< 0.049 UJ	< 0.098 UJ	< 0.098 UJ	< 0.098 UJ	< 0.049 UJ	< 0.49 UJ	< 0.049 UJ	< 0.049 UJ	< 0.49 UJ	ND
1349MW01 [4]	03/01/07	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / NA
DUP0301073A	03/01/07	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / NA
1349MW01CL	03/01/07	< 0.01	< 0.01	< 0.01	< 0.01 UJ	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	ND / NA
	03/16/06	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / NA
	03/21/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/15/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/02/03	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND
	08/21/03	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	06/10/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/12/03	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	NA	< 0.5	ND
	12/09/02	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	< 0.049	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	NA	< 0.49	ND
DUP1209021A	12/09/02	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	< 0.049	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	NA	< 0.49	ND
1349MW01CL	12/09/02	< 0.1	< 0.1	< 0.1	< 0.05 UJ	NA	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.5	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
	08/28/02	< 0.097	< 0.097	< 0.097	< 0.049 UJ	< 0.049	< 0.049 UJ	< 0.049 UJ	< 0.097	< 0.097	< 0.097	< 0.049 UJ	< 0.049	< 0.049 UJ	NA	< 0.49	ND
	05/30/02	< 0.098	< 0.098	< 0.098	< 0.049 UJ	< 0.049	< 0.049 UJ	< 0.049 UJ	< 0.098	< 0.098	< 0.098	< 0.049 UJ	< 0.049	< 0.049 UJ	NA	< 0.49	ND
	03/06/02	< 0.098	< 0.098	< 0.098 UJ	< 0.049 UJ	< 0.049	< 0.049 UJ	< 0.049 UJ	< 0.098	< 0.098	< 0.098	< 0.049 UJ	< 0.049	< 0.049 UJ	NA	< 0.49	ND
	11/28/01	< 0.096	< 0.096	< 0.096	< 0.048	< 0.048	< 0.048	< 0.048	< 0.096	< 0.096	< 0.096	< 0.048	< 0.048	< 0.048	NA	< 0.48	ND

Table A-9-4
Results of OCP and PCB Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	alpha-Chlordane	beta-BHC	delta-BHC	Dieldrin	Endosulfan II	Endrin	gamma-BHC	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Meth-oxychlor	All Other OCPs / PCBs
	Analytical Method[1]	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**--**	**--**	**--**	**--**	**0.037 [3]**	**--**	**0.056**	**--**	**--**	**0.05**	**--**	**0.025**	**--**	**--**	**--**
1349MW01 [4]	08/30/01	< 0.097 UJ	< 0.097 UJ	< 0.097 UJ	< 0.049	< 0.049 UJ	< 0.049	< 0.049	< 0.097 UJ	< 0.097 UJ	< 0.097 UJ	< 0.049	< 0.049 UJ	< 0.049	NA	< 0.49 UJ	ND
DUP0830013A	08/30/01	< 0.098	< 0.098	< 0.098	< 0.049	< 0.049	< 0.049	< 0.049	< 0.098	< 0.098	< 0.098	< 0.049	< 0.049	< 0.049	NA	< 0.49	ND
1349MW01CL	08/30/01	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	ND
	05/10/01	< 0.094 UJ	< 0.094 UJ	< 0.094 UJ	< 0.047	< 0.047 UJ	< 0.047	< 0.047	< 0.094 UJ	< 0.094 UJ	< 0.094 UJ	< 0.047	< 0.047 UJ	< 0.047	NA	< 0.47 UJ	ND
1349MW02 [4]	02/28/07	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/10/06	< 0.1	< 0.1	< 0.1 # UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/31/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	05/25/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/21/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/16/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/12/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	05/26/04	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/15/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/02/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/13/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	06/05/03	< 0.09	< 0.09	< 0.09 UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
DUP0605032A	06/05/03	< 0.09	< 0.09	< 0.09 UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/12/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	NA	< 0.5	ND
	12/04/02	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	< 0.049	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	NA	< 0.49	ND
DUP1204023A	12/04/02	< 0.094 UJ	< 0.094 UJ	< 0.094 UJ	< 0.047	< 0.047 UJ	< 0.047	< 0.047	< 0.094 UJ	< 0.094 UJ	< 0.094 UJ	< 0.047	< 0.047 UJ	< 0.047	NA	< 0.47 UJ	ND
	08/28/02	< 0.095	< 0.095	< 0.095	< 0.048	< 0.048	< 0.048	< 0.048	< 0.095	< 0.095	< 0.095	< 0.048	< 0.048	< 0.048	NA	< 0.48	ND
	05/30/02	< 0.099	< 0.099	< 0.099	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.099	< 0.099	< 0.099	< 0.05 UJ	< 0.05	< 0.05 UJ	NA	< 0.5	ND
	03/06/02	< 0.095	< 0.095	< 0.095 UJ	< 0.048	< 0.048	< 0.048	< 0.048	< 0.095	< 0.095	< 0.095	< 0.048 UJ	< 0.048	< 0.048	NA	< 0.48	ND
DUP0306022A	03/06/02	< 0.095	< 0.095	< 0.095 UJ	< 0.048 UJ	< 0.048	< 0.048 UJ	< 0.048 UJ	< 0.095	< 0.095	< 0.095	< 0.048 UJ	< 0.048	< 0.048 UJ	NA	< 0.48	ND
1349MW02 [4]	11/28/01	< 0.096	< 0.096	< 0.096	< 0.048	< 0.048	< 0.048	< 0.048	< 0.096	< 0.096	< 0.096	< 0.048	< 0.048	< 0.048	NA	< 0.48	ND
DUP1128011A	11/28/01	< 0.096 UJ	< 0.096 UJ	< 0.096 UJ	< 0.048	< 0.048 UJ	< 0.048	< 0.048	< 0.096 UJ	< 0.096 UJ	< 0.096 UJ	< 0.048	< 0.048 UJ	< 0.048	NA	< 0.48 UJ	ND
	08/30/01	< 0.098 UJ	< 0.098 UJ	< 0.098 UJ	< 0.049	< 0.049 UJ	< 0.049	< 0.049	< 0.098 UJ	< 0.098 UJ	< 0.098 UJ	< 0.049	< 0.049 UJ	< 0.049	NA	< 0.49 UJ	ND
DUP0830012A	08/30/01	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	< 0.049	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	NA	< 0.49	ND
1349MW02CL	08/30/01	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	ND
	05/10/01	< 0.094	< 0.094	< 0.094	< 0.047	< 0.047	< 0.047	< 0.047	< 0.094	< 0.094	< 0.094	< 0.047	< 0.047	< 0.047	NA	< 0.47	ND
1349MW03R	08/17/06	< 0.09	< 0.09	< 0.09 # UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5 # UJ	ND / NA
	03/16/06	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/31/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	05/25/05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/21/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/16/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/10/04	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	05/26/04	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND

Table A-9-4
Results of OCP and PCB Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	alpha-Chlordane	beta-BHC	delta-BHC	Dieldrin	Endosulfan II	Endrin	gamma-BHC	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Meth-oxychlor	All Other OCPs / PCBs
	Analytical Method[1]	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**--**	**--**	**--**	**--**	**0.037 [3]**	**--**	**0.056**	**--**	**--**	**0.05**	**--**	**0.025**	**--**	**--**	**--**
1349MW03R	03/09/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	**0.08 C**	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/02/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/13/03	< 0.09	< 0.09	< 0.09	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.09	< 0.09	< 0.09	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
	06/09/03	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND
1349MW100 [4]	06/06/07	< 0.9	< 0.9	< 0.9	< 0.5	< 0.5	< 0.5	< 0.5	< 0.9	< 0.9	< 0.9	< 0.5	< 0.5	0.8 C	< 0.5	< 4.7	NA
	06/06/07	< 0.9	< 0.9	< 0.9	< 0.5	< 0.5	< 0.5	< 0.5	< 0.9	< 0.9	< 0.9	< 0.5	< 0.5	0.9 C	< 0.5	< 4.7	NA
	06/06/07	< 0.096	< 0.096	< 0.3 i	< 0.096 UJ	0.17 D	< 0.096	< 0.096	< 0.096	< 0.31 i	< 0.096	< 0.096	< 0.096	< 0.096	< 0.096	0.15 PD	NA
	03/01/07	< 0.1	< 0.1	< 0.1	< 0.05 UJ	0.08	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	1.7 J-	< 0.05	1 C J-	< 0.05 UJ	< 0.5	ND
DUP0301073B	03/01/07	< 0.1	< 0.1	< 0.1	< 0.05 UJ	0.06	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	1.7 J-	0.5 C	0.9 C J-	< 0.05 UJ	< 0.5	ND
	12/05/06	< 0.2	0.3	< 0.2 # UJ	< 0.1 UJ	< 0.1	< 0.1 UJ	< 0.1 UJ	0.3	< 0.2	< 0.2	< 0.2 UJ	< 0.1	0.2 J-	< 0.1 UJ	< 1	ND / NA
	08/16/06	< 0.3 UJ	< 0.3 UJ	0.4 J-	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.3 UJ	< 0.3 UJ	0.7 C J-	2.4 J-	< 0.1 UJ	2.2 C J-	0.4 C J-	< 1.4 UJ	ND
	05/24/06	< 0.5	< 0.5	0.8 C	< 0.2	< 0.2	< 0.5 # UJ	< 0.2 # UJ	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 0.2	0.4	< 2.4	ND
DUP0524063A	05/24/06	< 0.5	< 0.5	0.8	0.3 C	0.8	< 0.5 # UJ	< 0.2 # UJ	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 0.2	0.3	< 2.4	ND
1349MW100CL	05/24/06	< 0.1 U UJ	< 0.1 U UJ	< 0.1 U UJ	< 0.05 U	< 0.5 U UJ	< 0.05 U	< 0.05 U	< 0.1 U UJ	< 0.1 U UJ	< 0.1 U UJ	0.082	NA	< 0.05 U	< 0.05 U	< 0.5 U UJ	ND
	03/16/06	0.9 C J-	< 0.1 UJ	< 0.1 UJ	0.3	0.9 C J-	< 0.05	0.1 C	0.4 C J-	< 0.1 UJ	< 0.1 UJ	< 0.05	0.7 C J-	0.8 C	0.2	< 0.5 UJ	ND
	11/30/05	< 0.5	< 0.5	< 0.5	< 0.2	0.3 C	< 0.2	< 0.2	< 0.5	< 0.5	< 0.5	1.3	< 0.2	< 0.2	< 0.2	< 2.4	ND
	08/31/05	< 0.1	< 0.1	1 Cb J	< 0.05	0.2 C	< 0.5	0.08 b J	0.1	0.8 C	< 0.1	8.5 Cb J	0.2	< 0.05	0.2 C	< 0.5	ND
	05/25/05	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 0.5	< 1	< 1	< 1	4.5 #C	< 0.5	< 0.5	< 0.5	< 4.8	ND
	03/23/05	< 1	< 1	< 1 # UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 5	ND
	12/16/04	< 1	< 1 #	< 1 # UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 4.8 # UJ	ND
	08/10/04	0.9 C	1.1 C	0.4	0.2	0.1	< 0.05	0.1 C	0.5 C	< 0.1	0.1 C	3.7 C	< 0.05	1.6 C	< 0.05	< 0.5	ND
	05/27/04	< 0.2 UJ	< 0.2 UJ	0.5 C, J-	< 0.09	0.2 C, J-	< 0.09	0.2 C	0.3 J-	0.7 C, J-	0.2 J-	< 0.2	0.1 J-	0.8 C	0.2 C	< 0.9 UJ	ND
	03/16/04	< 0.09 UJ	0.7 Cb,J-	0.7 C,J-	< 0.05 UJ	0.2 J-	< 0.05 UJ	0.08 b,J-	0.3 J-	0.6 J-	0.2 J-	< 0.05 UJ	0.3 C,J-	0.8 Cb,J-	0.2 C,J-	1.2 b,J-	ND
	12/02/03	0.5 C	0.7 C	0.5 Cb,J-	< 0.05	< 0.05	3.9 C	0.06 C	0.1	< 0.09	< 0.09	2.3 C	< 0.05	< 0.05	0.2 C	< 0.5	ND
	08/12/03	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	0.2 C	0.1 J-	< 0.2	< 0.05	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	4.6 C	0.07 J-	2.6 Cb,J-	0.1	< 0.5 UJ	ND
	06/09/03	0.3 C,J-	0.3 C,J-	< 0.09 UJ	0.07 C	< 0.05 UJ	< 0.05	0.2 C	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	4.5 C	0.4 C,J-	< 0.05	< 0.05	< 0.5 UJ	ND
	03/12/03	0.3 Cb,J+	< 0.1 UJ	0.2 C,J-	0.3 C,J+	0.2 C,J-	6.1 C,J+	0.1 C,J+	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	2.2 C,J+	0.2 C,J-	0.8 C,J+	NA	< 0.5 UJ	ND
	12/10/02	< 0.097	< 0.097	< 0.097	0.11 C,J-	< 0.049	1.5 C,J-	< 0.049 UJ	< 0.097	< 0.097	< 0.097	0.43 C,J-	< 0.049	0.83 C,J-	NA	< 0.49	ND
1349MW101	08/17/06	< 0.09	< 0.09	< 0.09 # UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5 # UJ	ND / NA
	03/16/06	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/31/05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	05/25/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
DUP0525052A	05/25/05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/21/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/15/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/09/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	**0.06 C**	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND

Table A-9-4
Results of OCP and PCB Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	alpha-Chlordane	beta-BHC	delta-BHC	Dieldrin	Endosulfan II	Endrin	gamma-BHC	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Meth-oxychlor	All Other OCPs / PCBs
	Analytical Method[1]	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**--**	**--**	**--**	**--**	**0.037 [3]**	**--**	**0.056**	**--**	**--**	**0.05**	**--**	**0.025**	**--**	**--**	**--**
1349MW101	12/02/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/19/03	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	06/09/03	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND
1349MW102	08/17/06	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND / NA
	03/07/06	< 0.1	< 0.1	< 0.1 # UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
DUP0307063C	03/07/06	< 0.1	< 0.1	< 0.1 # UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
1349MW102CL	03/07/06	< 0.1 U R	< 0.1 U R	< 0.1 U R	< 0.05 U UJ	< 0.5 U R	< 0.05 U UJ	< 0.05 U UJ	< 0.1 U R	< 0.1 U R	< 0.1 U R	< 0.05 U UJ	NA	< 0.05 U UJ	< 0.05 U UJ	< 0.5 U R	ND
	08/31/05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/31/05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	05/25/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/21/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
DUP0321053A	03/21/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/16/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/10/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/10/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	05/27/04	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
DUP0527041A	05/27/04	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
1349MW102CL	05/27/04	< 0.098	< 0.098	< 0.098	< 0.049	NA	< 0.049	< 0.049	< 0.098	< 0.098	< 0.098	< 0.049	< 0.49	< 0.049	< 0.049	< 0.49	ND
	03/10/04	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
DUP0310041A	03/10/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
1349MW102CL	03/10/04	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05 UJ	NA	< 0.05 UJ	< 0.05 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05 UJ	< 0.5 UJ	< 0.05 UJ	< 0.05 UJ	< 0.5 UJ	ND
	12/10/03	< 0.1	< 0.1	< 0.1 b,UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	**0.07 C,J+**	< 0.05	< 0.05 b,UJ	< 0.05	< 0.5 b,UJ	ND
DUP1210031A	12/10/03	< 0.09	< 0.09	< 0.09 b,UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	**0.07 J+**	< 0.05	< 0.05 b,UJ	< 0.05	< 0.5 b,UJ	ND
	08/12/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05 UJ	< 0.05	< 0.5	ND
	06/09/03	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND
DUP0609032A	06/09/03	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND
1349MW102CL	06/09/03	< 0.095 UJ	< 0.095 UJ	< 0.095 UJ	< 0.048 UJ	NA	< 0.048 UJ	< 0.048 UJ	< 0.095 UJ	< 0.095 UJ	< 0.095 UJ	< 0.048 UJ	< 0.48 UJ	< 0.048 UJ	< 0.048 UJ	< 0.48 UJ	ND

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Groundwater cleanup levels were taken from the *Remedial Action Plan and Evaluation of Alternatives for Landfill 4 and Fill Site 5, Presidio of San Francisco, California* (Treadwell & Rollo, 2002e).
3 - The RAP does not list a cleanup level for beta-BHC; however, the RAP states that when chemicals are encountered in groundwater and cleanup levels are not listed, the default should be Tap Water PRGs.
The Tap Water PRG for beta-BHC (HCH-beta) is 0.037 µg/L.
4 - Monitoring wells 1349MW01, 1349MW02, and 1349MW100 are located upgradient of Fill Site 5, therefore, the cleanup levels do not apply to these wells.
-- - cleanup level not established
µg/L - micrograms per liter
ND - not detected
NA - not analyzed
- The continuing calibration verification (CCV) drifted outside the limits although the average CCV drift was within method requirements.
OCPs - organochlorine pesticides
PCBs - polychlorinated biphenyls
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Bold numbers indicate detected concentrations which exceed cleanup criteria.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-9-5
Results of PAH Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	Acena-phthene	Anthracene	Benzo(a)-anthracene	Benzo(a)-Pyrene	Benzo(b)-Fluoranthene	Benzo(g,h,i)-perylene	Benzo(k)-Fluoranthene	Chrysene	Dibenz(a,h)-anthracene	Fluor-anthene	Fluorene	Indeno-(1,2,3-c,d)-pyrene	Naph-thalene	Phen-anthrene	Pyrene	All Other PAHs
	Analytical Method[1]	SW8310/ SW8270	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**770**	**0.1**	**0.2**	**0.2**	**50**	**2**	**20**	**--**	**300**	**300**	**--**	**--**	**230**	**230**	**--**
LF5GW100	03/09/06	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	08/30/05	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	03/28/05	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	08/12/04	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	05/26/04	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	03/15/04	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	12/04/03	< 0.99	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.4	< 0.99	< 0.14	< 0.99	< 0.5	< 0.2	ND
	08/14/03	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	06/05/03	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	12/04/02	< 1	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.4	< 1	< 0.14	< 1	< 0.5	< 0.2	ND
	08/29/02	< 0.99	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.4	< 0.99	< 0.14	< 0.99	< 0.5	< 0.2	ND
	05/30/02	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	03/06/02	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	11/28/01	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	08/30/01	< 1	< 0.52	< 0.1	< 0.1	< 0.21	< 0.21	< 0.1	< 0.1	< 0.21	< 0.42	< 1	< 0.15	< 1	< 0.52	< 0.21	ND
	05/10/01	< 0.96 UJ	< 0.48 UJ	< 0.1 UJ	< 0.1 UJ	< 0.19 UJ	< 0.19 UJ	< 0.1 UJ	< 0.1 UJ	< 0.19 UJ	< 0.38 UJ	< 0.96 UJ	< 0.13 UJ	< 0.96 UJ	< 0.48 UJ	< 0.19 UJ	ND
LF5GW100CL	05/10/01	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.15	< 0.1	< 0.1	< 0.15	< 0.1	< 0.15	ND
	07/21/00	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	ND
LF5GW101	03/09/06	< 1	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.4	< 1	< 0.14	< 1	< 0.5	< 0.2	ND
	08/30/05	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	03/28/05	< 0.99	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.4	< 0.99	< 0.14	< 0.99	< 0.5	< 0.2	ND
	08/12/04	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	05/26/04	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	03/15/04	< 1	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.4	< 1	< 0.14	< 1	< 0.5	< 0.2	ND
	12/04/03	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	08/14/03	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	06/05/03	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	12/04/02	< 1	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.4	< 1	< 0.14	< 1	< 0.5	< 0.2	ND
	08/29/02	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	05/30/02	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	03/06/02	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	11/28/01	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	08/30/01	< 1.1	< 0.53	< 0.11	< 0.11	< 0.21	< 0.21	< 0.11	< 0.11	< 0.21	< 0.42	< 1.1	< 0.15	< 1.1	< 0.53	< 0.21	ND
	05/10/01	< 0.97	< 0.49 UJ	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	07/21/00	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	ND

Table A-9-5
Results of PAH Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	Acena-phthene	Anthracene	Benzo(a)-anthracene	Benzo(a)-Pyrene	Benzo(b)-Fluoranthene	Benzo(g,h,i)-perylene	Benzo(k)-Fluoranthene	Chrysene	Dibenz(a,h)-anthracene	Fluor-anthene	Fluorene	Indeno-(1,2,3-c,d)-pyrene	Naph-thalene	Phen-anthrene	Pyrene	All Other PAHs
	Analytical Method[1]	SW8310/ SW8270	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**770**	**0.1**	**0.2**	**0.2**	**50**	**2**	**20**	**--**	**300**	**300**	**--**	**--**	**230**	**230**	**--**
LF5GW102	03/09/06	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	08/30/05	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
DUP0830053A	08/30/05	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
LF5GW102CL	08/30/05	< 5 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.5 U	< 0.2 U	< 1 U	< 0.2 U	< 5 U	< 1 U	< 0.2 U	ND
	03/21/05	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	08/11/04	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	05/27/04	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	03/10/04	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	12/03/03	< 0.95	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
DUP1203031A	12/03/03	< 0.98	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
LF5GW102CL	12/03/03	< 0.48	< 0.048	< 0.048	< 0.048	< 0.095	< 0.095	< 0.048	< 0.048	< 0.19	0.14	< 0.095	< 0.048	< 0.48	0.094	0.12	ND
	08/13/03	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	06/06/03	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
LF5GW103	03/09/06	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	08/30/05	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	03/15/05	< 1	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.4	< 1	< 0.14	< 1	< 0.5	< 0.2	ND
	08/11/04	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	05/27/04	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	03/10/04	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	12/03/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	08/19/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
DUP0819032A	08/19/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
LF5GW103CL	08/19/03	< 0.48	< 0.048	< 0.048	< 0.048	< 0.095	< 0.095	< 0.048	< 0.048	< 0.19	< 0.095	< 0.095	< 0.048	< 0.48	< 0.048	< 0.048	ND
	06/05/03	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
LF5GW104	03/07/06	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
DUP0307063B	03/07/06	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
LF5GW104CL	03/07/06	< 5 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.5 U	< 0.2 U	< 1 U	< 0.2 U	< 5 U	< 1 U	< 0.2 U	ND
	08/30/05	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	03/15/05	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	08/11/04	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	05/26/04	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	03/10/04	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	12/03/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	08/13/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	06/05/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND

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Results of PAH Analyses
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Well Name	Sample Date	Acena-phthene	Anthracene	Benzo(a)-anthracene	Benzo(a)-Pyrene	Benzo(b)-Fluoranthene	Benzo(g,h,i)-perylene	Benzo(k)-Fluoranthene	Chrysene	Dibenz(a,h)-anthracene	Fluor-anthene	Fluorene	Indeno-(1,2,3-c,d)-pyrene	Naph-thalene	Phen-anthrene	Pyrene	All Other PAHs
	Analytical Method[1]	SW8310/ SW8270	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**770**	**0.1**	**0.2**	**0.2**	**50**	**2**	**20**	**--**	**300**	**300**	**--**	**--**	**230**	**230**	**--**
1349MW01 [3]	03/01/07	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	0.02 J	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
DUP0301073A	03/01/07	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
1349MW01CL	03/01/07	< 1	< 0.1	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.2	< 0.2	< 0.1	< 1	< 0.1	< 0.2	ND
	03/16/06	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	03/21/05	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	03/15/04	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	12/02/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	08/21/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	06/10/03	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	03/12/03	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	12/09/02	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
DUP1209021A	12/09/02	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
1349MW01CL	12/09/02	< 0.5	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.05	< 0.05	< 0.2	< 0.1	< 0.1	< 0.05	< 0.5	< 0.05	< 0.05	ND
	08/28/02	< 0.99	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.4	< 0.99	< 0.14	< 0.99	< 0.5	< 0.2	ND
	05/30/02	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	03/06/02	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	11/28/01	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	08/30/01	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
DUP0830013A	08/30/01	< 1.1	< 0.53	< 0.11	< 0.11	< 0.21	< 0.19	< 0.11	< 0.11	< 0.19	< 0.43	< 1.1	< 0.13	< 1.1	< 0.53	< 0.21	ND
1349MW01CL	08/30/01	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.15	< 0.1	< 0.1	< 0.15	< 0.1	< 0.15	ND
	05/10/01	< 0.95 UJ	< 0.48 UJ	< 0.1 UJ	< 0.1 UJ	< 0.19 UJ	< 0.19 UJ	< 0.1 UJ	< 0.1 UJ	< 0.19 UJ	< 0.38 UJ	< 0.95 UJ	< 0.13 UJ	< 0.95 UJ	< 0.48 UJ	< 0.19 UJ	ND
1349MW02	02/28/07	< 1	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.4	< 1	< 0.14	< 1	< 0.5	< 0.2	ND
	03/10/06	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	08/31/05	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	05/25/05	< 0.99	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.4	< 0.99	< 0.14	< 0.99	< 0.5	< 0.2	ND
	03/21/05	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	03/15/04	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	12/02/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	08/13/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	06/05/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
DUP0605032A	06/05/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	03/12/03	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	12/04/02	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
DUP1204023A	12/04/02	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	08/28/02	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	05/30/02	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND

Table A-9-5
Results of PAH Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	Acena-phthene	Anthracene	Benzo(a)-anthracene	Benzo(a)-Pyrene	Benzo(b)-Fluoranthene	Benzo(g,h,i)-perylene	Benzo(k)-Fluoranthene	Chrysene	Dibenz(a,h)-anthracene	Fluor-anthene	Fluorene	Indeno-(1,2,3-c,d)-pyrene	Naph-thalene	Phen-anthrene	Pyrene	All Other PAHs
	Analytical Method[1]	SW8310/ SW8270	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**770**	**0.1**	**0.2**	**0.2**	**50**	**2**	**20**	**--**	**300**	**300**	**--**	**--**	**230**	**230**	**--**
1349MW02	03/06/02	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
DUP0306022A	03/06/02	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	11/28/01	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
DUP1128011A	11/28/01	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	08/30/01	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
DUP0830012A	08/30/01	< 1	< 0.51	< 0.1	< 0.1	< 0.2	< 0.19	< 0.1	< 0.1	< 0.19	< 0.41	< 1	< 0.13	< 1	< 0.51	< 0.2	ND
1349MW02CL	08/30/01	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.15	< 0.1	< 0.1	< 0.15	< 0.1	< 0.15	ND
	05/10/01	< 0.97	< 0.49 UJ	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
1349MW03R	03/16/06	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	08/31/05	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	03/21/05	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	03/09/04	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	12/02/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	08/13/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	06/09/03	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
1349MW100 [3]	06/06/07	5.1	1.4	2.6	< 0.09	< 0.19	< 0.19	0.16	2.5	< 0.19	8.5	16	< 0.13	< 0.94	29	3.7	ND
	06/06/07	6.2	1.4	2.2	< 0.1	< 0.19	< 0.19	0.14	2.4	< 0.19	8	16	< 0.13	< 0.95	27	3.4	ND
	06/06/07	< 0.96	3.1 J+	< 0.096	< 0.096	< 0.2	< 0.2	< 0.096	< 0.096	< 0.2	< 13 i	15 D J+	< 0.096	< 0.96	< 110 i	< 4 i	ND
	03/01/07	< 0.97	1.2	1.9	< 0.1	0.21	< 0.19	0.14	1.7	< 0.19	7	16	< 0.14	< 0.97	25	2.9	ND
DUP0301073B	03/01/07	3.8	0.63	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	0.85	< 0.2	3.9	11	< 0.14	< 1	15	1.3	ND
	12/05/06	12	1.1	2.3	< 0.1	1.2	< 0.2	0.11	1.2	< 0.2	41	17	< 0.14	< 1	41	< 0.2	ND
	08/16/06	4.9	0.71	1.1	< 0.09 R	< 0.19	< 0.19	< 0.09	1.1	< 0.19	4.7	13	< 0.13	< 0.94 R	17	1.5 J-	ND
	05/24/06	3.6	0.2 J	0.11	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	1.6	7.5	< 0.14	< 1	4.9	0.38	ND
DUP0524063A	05/24/06	4.3	0.28 J	0.14	< 0.1	< 0.2	< 0.2	< 0.1	0.1	< 0.2	1.8	8.4	< 0.14	< 0.98	5.8	0.48	ND
1349MW100CL	05/24/06	5.6 P J-	0.24 P J-	0.48 P J-	< 0.2 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.5 U UJ	0.38 P J-	4 J-	< 0.2 U UJ	< 5 U UJ	3.5 J-	0.44 P J-	ND
	03/16/06	6.6	0.36 J	0.35	< 0.1	< 0.19	< 0.19	< 0.1	0.29	< 0.19	2.3	10	< 0.13	< 0.96	9	0.75	ND
	11/30/05	12 J+	2.8 J+	3.7 J+	< 0.09	0.74 J+	< 0.19	0.31 J+	4.1 J+	< 0.19	22 J+	29 J+	< 0.13	< 0.94	63 J+	7.8 J+	ND
	08/31/05	10 J+	< 0.48	1.3 J+	< 0.1	< 0.19	< 0.19	< 0.1	0.74 J+	< 0.19	11 J+	< 0.95	< 0.13	< 0.95	9.2 J+	0.65 J+	ND
	05/25/05	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	0.78 J+	18 J+	< 0.13	< 0.94	8.4 J+	0.34 J+	ND
	03/23/05	< 0.95	< 0.48	< 0.1	0.63 J+	4.8 J+	< 0.19	0.85 J+	< 0.1	1.7 J+	5.4 J+	22	< 0.13	< 0.95	34	3.8 J+	ND
	03/16/04	< 19	< 9.4	6.2	< 1.9	< 3.8	< 3.8	< 1.9	2.7	< 3.8	14	46	< 2.6	< 19	86	< 3.8	ND
	12/02/03	< 0.95	0.59 J,J+	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	0.32 J+	< 0.19	0.96 J+	11 J+	< 0.13	< 0.95	9.6 J+	0.28 J+	ND
	08/12/03	< 0.95	1.1 J+	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	0.81 J+	< 0.19	1.7 J+	19 J+	< 0.13	< 0.95	18 J+	0.51 J+	ND
	06/09/03	< 0.94	< 0.47	0.53 J+	< 0.09	< 0.19	< 0.19	< 0.09	1 J+	< 0.19	2.4 J+	13 J+	< 0.13	7.5 J+	17 J+	0.75 J+	ND
	03/12/03	< 0.98	< 0.49	0.14	< 0.1	< 0.2	< 0.2	< 0.1	0.16	< 0.2	< 0.39	5.2	< 0.14	< 0.98	5.3	0.27	ND
	12/10/02	< 0.94	0.25 J	0.15	< 0.09	< 0.19	< 0.19	< 0.09	0.17	< 0.19	0.43	4	< 0.13	< 0.94	4.2	0.23	ND

Table A-9-5
Results of PAH Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	Acena-phthene	Anthracene	Benzo(a)-anthracene	Benzo(a)-Pyrene	Benzo(b)-Fluoranthene	Benzo(g,h,i)-perylene	Benzo(k)-Fluoranthene	Chrysene	Dibenz(a,h)-anthracene	Fluor-anthene	Fluorene	Indeno-(1,2,3-c,d)-pyrene	Naph-thalene	Phen-anthrene	Pyrene	All Other PAHs
	Analytical Method[1]	SW8310/ SW8270	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**770**	**0.1**	**0.2**	**0.2**	**50**	**2**	**20**	**--**	**300**	**300**	**--**	**--**	**230**	**230**	**--**
1349MW101	03/16/06	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	08/31/05	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	03/21/05	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	03/09/04	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	12/02/03	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	08/19/03	< 0.95 UJ	< 0.48 UJ	< 0.1 UJ	< 0.1 UJ	< 0.19 UJ	< 0.19 UJ	< 0.1 UJ	< 0.1 UJ	< 0.19 UJ	< 0.38 UJ	< 0.95 UJ	< 0.13 UJ	< 0.95 UJ	< 0.48 UJ	< 0.19 UJ	ND
	06/09/03	< 0.94 UJ	< 0.47 UJ	< 0.09 UJ	< 0.09 UJ	< 0.19 UJ	< 0.19 UJ	< 0.09 UJ	< 0.09 UJ	< 0.19 UJ	< 0.38 UJ	< 0.94 UJ	< 0.13 UJ	< 0.94 UJ	< 0.47 UJ	< 0.19 UJ	ND
1349MW102	03/07/06	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
DUP0307063C	03/07/06	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
1349MW102CL	03/07/06	< 5 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.5 U UJ	< 0.2 U UJ	< 1 U UJ	< 0.2 U UJ	< 5 U UJ	< 1 U UJ	< 0.2 U UJ	ND
	08/31/05	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
DUP0831052A	08/31/05	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	03/21/05	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
DUP0321053A	03/21/05	< 1	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.4	< 1	< 0.14	< 1	< 0.5	< 0.2	ND
	03/10/04	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
DUP0310041A	03/10/04	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
1349MW102CL	03/10/04	< 0.5	< 0.05	< 0.05	< 0.05 R	< 0.1 UJ	< 0.1 UJ	< 0.05 UJ	< 0.05	< 0.2 UJ	< 0.1	< 0.1	< 0.05 UJ	< 0.5	< 0.05	< 0.05	ND
	12/10/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
DUP1210031A	12/10/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	08/12/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
1349MW102	06/09/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
DUP0609032A	06/09/03	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
1349MW102CL	06/09/03	< 0.48	< 0.048	< 0.048	< 0.048	< 0.095	< 0.095	< 0.048	< 0.048	< 0.19	< 0.095	< 0.095	< 0.048	< 0.48	< 0.048	< 0.048	ND

Notes

1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.

2 - Groundwater cleanup levels were taken from the *Remedial Action Plan and Evaluation of Alternatives for Landfill 4 and Fill Site 5, Presidio of San Francisco, California* (Treadwell & Rollo, 2002e).

3 - Monitoring wells 1349MW01, 1349MW02, and 1349MW100 is located upgradient of Fill Site 5, therefore, the cleanup levels do not apply to these wells.
-- - cleanup level not established
Bold numbers indicate concentrations which exceed cleanup criteria.
µg/L - micrograms per liter
ND - not detected
NA - not analyzed
PAHs - polycyclic aromatic hydrocarbons
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-9-6
Results of Chlorinated Herbicide Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	2,4-D	2,4-DB	All Other Chlorinated Herbicides
	Analytical Method[1]	SW8151/ SW8151A	SW8151/ SW8151A	SW8151/ SW8151A
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		--	--	--
LF5GW100	08/30/05	< 0.25 U	< 1 U	ND
	03/28/05	< 0.25 U	< 1 U	ND
	08/12/04	< 0.24 U UJ	< 0.96 U UJ	ND
	05/26/04	< 0.24 U	< 0.96 U	ND
	03/15/04	< 0.24 U	< 0.96 U	ND
	12/04/03	< 0.24 U	< 0.96 U	ND
	08/14/03	< 0.24	< 0.96	ND
	06/05/03	< 0.24	< 0.96	ND
LF5GW101	08/30/05	< 0.25 U	< 1 U	ND
	03/28/05	< 0.25 U	< 1 U	ND
	08/12/04	< 0.24 U	< 0.96 U	ND
	05/26/04	< 0.24 U	< 0.96 U	ND
	03/15/04	< 0.24 U	< 0.96 U	ND
	12/04/03	< 0.24 U	< 0.96 U	ND
	08/14/03	< 0.24	< 0.96	ND
	06/05/03	< 0.24	< 0.96	ND
LF5GW102	08/30/05	< 0.25 U	< 1 U	ND
	08/30/05	< 0.25 U	< 1 U	ND
	08/30/05	< 1 U	< 1 U	ND
	03/21/05	< 0.25 U	< 1 U	ND
	08/11/04	< 0.24 U	< 0.96 U	ND
	05/27/04	< 0.24 U	< 0.96 U	ND
	03/10/04	< 0.24 U	< 0.96 U	ND
	12/03/03	< 0.24 U	< 0.96 U	ND
DUP1203031A	12/03/03	< 0.24 U	< 0.96 U	ND
LF5GW102CL	12/03/03	< 0.24	< 0.24	ND
	08/13/03	< 0.24	< 0.96	ND
	06/06/03	< 0.24	< 0.96	ND
LF5GW103	08/30/05	< 0.25 U	< 1 U	ND
	03/15/05	< 0.24 U	< 0.96 U	ND
	08/11/04	< 0.24 U	< 0.96 U	ND
	05/27/04	< 0.24 U	< 0.96 U	ND
	03/10/04	< 0.24 U	< 0.96 U	ND
	12/03/03	< 0.24 U	< 0.96 U	ND
	08/19/03	< 0.25	< 1	ND
DUP0819032A	08/19/03	< 0.24	< 0.96	ND
LF5GW103CL	08/19/03	< 0.24 UJ	< 0.24 UJ	ND
	06/05/03	< 0.24	< 0.96	ND

Table A-9-6
Results of Chlorinated Herbicide Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	2,4-D	2,4-DB	All Other Chlorinated Herbicides
	Analytical Method[1]	SW8151/ SW8151A	SW8151/ SW8151A	SW8151/ SW8151A
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		--	--	--
LF5GW104	08/30/05	< 0.25 U	< 1 U	ND
	03/15/05	< 0.24 U	< 0.96 U	ND
	08/11/04	< 0.24 U UJ	< 0.96 U UJ	ND
	05/26/04	< 0.24 U	< 0.96 U	ND
	03/10/04	< 0.24 U	< 0.96 U	ND
	12/03/03	< 0.24 U	< 0.96 U	ND
	08/13/03	< 0.24	< 0.96	ND
	06/05/03	< 0.24	< 0.96	ND
1349MW01 [3]	03/15/04	< 0.24 U	< 0.96 U	ND
	12/02/03	< 0.24 U	< 0.96 U	ND
	08/21/03	< 0.25	< 1	ND
	06/10/03	< 0.24	< 0.96	ND
1349MW02 [3]	08/31/05	< 0.25 U	< 1 U	ND
	03/21/05	< 0.25 U	< 1 U	ND
	12/16/04	< 0.25 U	< 1 U	ND
	08/12/04	< 0.24 U UJ	< 0.96 U UJ	ND
	05/26/04	< 0.24 U	< 0.96 U	ND
	03/15/04	< 0.24 U	< 0.96 U	ND
	12/02/03	< 0.24 U	< 0.96 U	ND
	08/13/03	< 0.24	< 0.96	ND
	06/05/03	< 0.24	< 0.96	ND
DUP0605032A	06/05/03	< 0.24	< 0.96	ND
1349MW03R	08/31/05	< 0.25 U	< 1 U	ND
	03/21/05	< 0.25 U	< 1 U	ND
	08/10/04	< 0.24 U	< 0.96 U	ND
	05/26/04	< 0.24 U	< 0.96 U	ND
	03/09/04	< 0.24 U	< 0.96 U	ND
	12/02/03	< 0.24 U	< 0.96 U	ND
	08/13/03	< 0.24	< 0.96	ND
	06/09/03	< 0.24	< 0.96	ND
1349MW100 [3]	08/31/05	< 0.25 U	< 1 U	ND
	03/23/05	< 0.25 U	< 1 U	ND
	08/10/04	< 0.24 U	< 0.96 U	ND
	05/27/04	< 0.24 U	< 0.96 U	ND
	03/16/04	< 0.24 U	< 0.96 U	ND
	12/02/03	< 0.24 U	< 0.96 U	ND
	08/12/03	2.1	12	ND
	06/09/03	< 0.24	< 0.96	ND

Table A-9-6
Results of Chlorinated Herbicide Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	2,4-D	2,4-DB	All Other Chlorinated Herbicides
	Analytical Method[1]	SW8151/ SW8151A	SW8151/ SW8151A	SW8151/ SW8151A
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		--	--	--
1349MW101	08/31/05	< 0.25 U	< 1 U	ND
	03/21/05	< 0.25 U	< 1 U	ND
	03/09/04	< 0.24 U	< 0.96 U	ND
	12/02/03	< 0.24 U	< 0.96 U	ND
	08/19/03	< 0.24	< 0.96	ND
	06/09/03	< 0.24	< 0.96	ND
1349MW102	08/31/05	< 0.25 U	< 1 U	ND
	08/31/05	< 0.25 U	< 1 U	ND
	03/21/05	< 0.25 U	< 1 U	ND
	08/10/04	< 0.24 U	< 0.96 U	ND
	05/27/04	< 0.24 U	< 0.96 U	ND
DUP0527041A	05/27/04	< 0.24 U	< 0.96 U	ND
1349MW102CL	05/27/04	< 0.24	< 0.24	ND
	03/10/04	< 0.24 U	< 0.96 U	ND
DUP0310041A	03/10/04	< 0.24 U	< 0.96 U	ND
1349MW102CL	03/10/04	< 0.25 UJ	< 0.25 UJ	ND
	12/10/03	< 0.24 U	< 0.96 U	ND
DUP1210031A	12/10/03	< 0.24 U	< 0.96 U	ND
	08/12/03	< 0.25	< 1	ND
	06/09/03	< 0.24	< 0.96	ND
DUP0609032A	06/09/03	< 0.24	< 0.96	ND
1349MW102CL	06/09/03	< 0.24 UJ	< 0.24 UJ	ND

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Groundwater cleanup levels were taken from the *Remedial Action Plan and Evaluation of Alternatives for Landfill 4 and Fill Site 5, Presidio of San Francisco, California* (Treadwell & Rollo, 2002e).
3 - Monitoring wells 1349MW01, 1349MW02, and 1349MW100 are located upgradient of Fill Site 5, therefore, the cleanup levels do not apply to these wells.
µg/L - micrograms per liter
ND - Not detected
NA - Not analyzed
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historic data qualifiers.

Table A-9-7
Results of Total and Dissolved Metals Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium [2]	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method [1]	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7040/ SW7470/ SW7470A	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [3]		--	**6**	**50**	**1,000**	**4**	**1.1**	**250,000**	**50**	--	**11.8**	**11**	--	**3.2**	--	--	**0.012**	**100**	--	**5**	**4.1**	--	**2**	--	**106**	--
LF5GW100	03/09/06	< 100	< 1	< 5	38 J	< 2	< 1	19,000	22	< 10	< 1	NA	< 100 UJ	< 3	140,000	< 10	< 0.2	< 20	870 J	< 5	< 1	130,000	< 1	< 10	< 20	1,040
	08/30/05	< 100 UJ	< 1	< 5	35	< 2	< 1	18,000	21	< 10	< 1	NA	130	< 3	140,000	< 10	< 0.2	< 20	870	< 5	< 1	130,000	< 1	< 10	< 20	920
	05/26/05	< 100	< 1	< 5	33	< 2	< 1	19,000	21	< 10	< 1	NA	< 100	< 3	140,000 J	< 10	< 0.2	< 20	860	< 5	< 1	130,000 J	< 1	< 10	< 20	740
DUP0526051A	05/26/05	< 100	< 1	< 5	36	< 2	< 1	17,000	23	< 10	< 1	NA	< 100	< 3	140,000 J	< 10	< 0.2	< 20	760	< 5	< 1	130,000 J	< 1	< 10	< 20	770
LF5GW100CL	05/26/05	< 100 U	< 2 U	< 2 U	34.9	< 1 U	< 1 U	17,900	24.3	< 1 U	< 2 U	NA	< 100 U	< 1 U	144,000	< 10 U	< 0.2 U	< 2 U	< 5,000 U	< 2 U	< 1 U	138,000	< 1 U	< 10 U	< 20 U	957
	03/28/05	< 100	< 1	< 5	35	< 2	< 1	17,000	18	< 10	< 1	NA	< 100	< 3	130,000	< 10	< 0.2	< 20	820	< 5	< 1	120,000	< 1	< 10	< 20	970
	12/16/04	< 100	< 1	< 5	31	< 2	< 1	18,000	22	< 10	< 1	NA	< 100	< 3	140,000	< 10	< 0.2	< 20	790	< 5	< 1	130,000	< 1	< 10	< 20	880
DUP1216041A	12/16/04	< 101	< 1	< 5	32	< 2	< 1	18,000	22	< 10	< 1	NA	< 100	< 3	150,000	< 11	< 0.3	< 21	800	< 5	< 1	140,000	< 1	< 10	< 20	870
	08/12/04	< 100	< 1	< 5	31	< 2	< 1	18,000	19	< 10	< 1	NA	< 100	< 3	130,000	< 10	< 0.2	< 20	850	< 5	< 1	120,000	< 1	< 10	< 20	950
	05/26/04	< 100	< 1	< 5	33	< 2	< 1	17,000	20	< 10	< 1	NA	< 100	< 3	140,000	< 10	< 0.2	< 20	820	< 5	< 1	140,000	< 1	< 10	< 20	850
	03/15/04	< 100	< 1	< 5	26 J-	< 2	< 1	18,000	16	< 10	5.2	NA	< 100	< 3	150,000	< 10	< 0.2	< 20	810	< 5	< 1	140,000	< 1	< 10	< 20	910
	12/04/03	< 100	< 1	< 5	36	< 2	< 1	15,000	19	< 10	< 1	NA	< 100	< 3	150,000	< 10	< 0.2	< 20	880	< 5	< 1	130,000	< 1	< 10	< 20	730
	08/14/03	< 100	1.6	< 5	28	< 2	< 1	16,000	17	< 10	< 1	NA	< 100	< 3	130,000	< 10	< 0.2	< 20	830	< 5	< 1 UJ	120,000	< 1	< 10	< 20	960
	06/05/03	< 100	< 1	< 5	31	< 2	< 1	18,000	25	< 10	< 1	NA	< 100	< 3	140,000	< 10	< 0.2	< 20	840	< 5	< 1 UJ	130,000	< 1	< 10	41	890
	12/04/02	< 100	< 1	< 1	31	< 1	< 1	16,000	16	< 1	< 1	10	< 100	< 3	130,000	< 10	< 0.2	2.2	890	< 5	< 1 UJ	120,000	< 1	< 10	< 10	910
	08/29/02	< 100	< 1	1.1	380	< 1	< 1	19,000	17 J	< 1	< 1	**20**	< 100	< 3	150,000	< 10	< 0.2	2.3	1,100	< 5	< 1 UJ	140,000	< 1	< 10	36	960
	05/30/02	< 100	1	1.1	490	< 1	< 1	18,000	20	< 1	< 1	**20 J-**	< 100	< 3	150,000	< 10	< 0.2	2	1,300	< 5	< 1 UJ	140,000	< 1	< 10	33	950
	03/06/02	< 100	1.9	1.3	580	< 1	< 1	17,000	19	< 1	< 1	**20**	< 100	< 3	190,000	< 10	< 0.2	2.5	1,300	< 5	< 1 UJ	150,000	< 1	< 10	22	910
	11/28/01	< 100	1.5	1.5	760	< 1	< 1	21,000	42 J	< 1	1.5	**20**	< 100	< 3	160,000	< 10	< 0.2	2.9	1,600	< 5	< 1	150,000	< 1	< 10	29	930
	08/30/01	< 100	2.8	1	530 J+	< 1	< 1	18,000	29	< 1	1.5	**20**	< 100	< 3	170,000	< 10	< 0.2	3.2	1,100	< 5	< 1 UJ	150,000	< 1	< 10	21	NA
	05/10/01	< 100	< 1	1.4	100	< 1	< 1	17,000	49 J	< 1	4.6 J	< 10	150	< 3	150,000	< 10	< 0.2	25 J	1,600	< 5	< 1 UJ	140,000	< 1	< 10	48 J	790
LF5GW100CL	05/10/01	200	< 2	< 2	670	< 1	< 1	19,000	49	< 1	< 2	**40**	< 200	< 5	120,000	5.9	< 0.2	25	2,100	< 5	< 1	120,000	< 1	< 5	50	730
	07/21/00	NA	< 60	5.4	< 10	< 2	< 5	NA	38	< 20	< 10	**40**	NA	< 3	NA	NA	< 0.2	< 20	NA	< 5	< 5	NA	< 5	< 10	< 20	890
LF5GW101	03/09/06	< 100	< 1	< 5	46 J	< 2	< 1	18,000	**53**	< 10	< 1	NA	< 100 UJ	< 3	130,000	< 10	< 0.2	< 20	1,300 J	< 5	< 1	120,000	< 1	< 10	< 20	1,090
	12/02/05	< 100	< 1	< 5	48	< 2	< 1	19,000	48	< 10	< 1	NA	120	< 3	110,000	< 10	< 0.2	< 20	1,100	< 5	< 1	110,000	< 1	< 10	< 20	NA
	08/30/05	< 100 UJ	< 1	< 5	52	< 2	< 1	20,000	**53**	< 10	< 1	NA	140	< 3	110,000	< 10	< 0.2	< 20	1,200	< 5	< 1	110,000	< 1	< 10	< 20	770
	05/26/05	< 100	< 1	< 5	49	< 2	< 1	18,000	**52**	< 10	< 1	NA	< 100	< 3	130,000 J	< 10	< 0.2	< 20	1,200	< 5	< 1	120,000 J	< 1	< 10	< 20	620
	03/28/05	< 100	< 1	< 5	48	< 2	< 1	18,000	**51**	< 10	< 1	NA	< 100	< 3	120,000	< 10	< 0.2	< 20	1,200	< 5	< 1	110,000	< 1	< 10	< 20	870
	12/16/04	< 100	< 1	< 5	49	< 2	< 1	19,000	**54**	< 10	1.2	NA	< 100	< 3	120,000	< 10	< 0.2	< 20	1,100	< 5	< 1	110,000	< 1	< 10	< 20	640
	08/12/04	< 100	1.4	< 5	51	< 2	< 1	18,000	**52**	< 10	2.5	NA	< 100	< 3	120,000	< 10	< 0.2	< 20	1,200	< 5	< 1	110,000	< 1	< 10	< 20	790
	05/26/04	< 100	< 1	< 5	46	< 2	< 1	19,000	**51**	< 10	< 1	NA	< 100	< 3	120,000	< 10	< 0.2	< 20	1100	< 5	< 1	120,000	< 1	< 10	< 20	740
	03/15/04	< 100	< 1	< 5	45 J-	< 2	< 1	21,000	50	< 10	< 1	NA	< 100	< 3	140,000	< 10	< 0.2	< 20	1,200	< 5	< 1	130,000	< 1	< 10	< 20	810
	12/04/03	< 100	1.3	< 5	48	< 2	< 1	17,000	50	< 10	< 1	NA	< 100	< 3	120,000	< 10	< 0.2	< 20	1,200	< 5	< 1	110,000	**< 1**	< 10	< 20	770
	08/14/03	< 100	1.2	< 5	47	< 2	< 1	19,000	**53**	< 10	< 1	NA	< 100	< 3	120,000	< 10	< 0.2	< 20	1,100	< 5	< 1 UJ	110,000	< 1	< 10	< 20	630
	06/05/03	< 100	< 1	< 5	41	< 2	< 1	19,000	48	< 10	< 1	NA	< 100	< 3	120,000	< 10	< 0.2	< 20	1,100	< 5	< 1 UJ	110,000	< 1	< 10	< 20	810
	12/04/02	< 100	< 1	1.3	45	< 1	< 1	20,000	**51**	< 1	< 1	**40**	< 100	< 3	110,000	< 10	< 0.2	4.8	1,200	< 5	< 1 UJ	100,000	< 1	< 10	< 10	780
	08/29/02	< 100	< 1	1.1	430	< 1	< 1	21,000	**51 J**	< 1	< 1	**50**	< 100	< 3	130,000	< 10	< 0.2	5.5	1,400	< 5	< 1 UJ	120,000	< 1	< 10	37	750
	05/30/02	< 100	1.7	1.1	400	< 1	< 1	20,000	46	< 1	< 1	**50 J-**	< 100	< 3	120,000	< 10	< 0.2	5.5	1,600	< 5	< 1 UJ	120,000	< 1	< 10	32	850
	03/06/02	< 100	1.2	1.7	460	< 1	< 1	18,000	**53**	< 1	< 1	**50**	< 100	< 3	160,000	< 10	< 0.2	3.8	1,500	< 5	1.7 J-	140,000	< 1	< 10	24	770

Table A-9-7
Results of Total and Dissolved Metals Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium [2]	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method [1]	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7040/ SW7470/ SW7470A	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [3]		--	**6**	**50**	**1,000**	**4**	**1.1**	**250,000**	**50**	--	**11.8**	**11**	--	**3.2**	--	--	**0.012**	**100**	--	**5**	**4.1**	--	**2**	--	**106**	--
LF5GW101	11/28/01	< 100	< 1	1.8	42	< 1	< 1	20,000	**58 J**	< 1	< 1	**50**	< 100	< 3	130,000	< 10	< 0.2	6.9	1,500	< 5	< 1	130,000	< 1	< 10	< 10	790
	08/30/01	< 100	1.1	1.3	350 J+	< 1	< 1	19,000	**57**	< 1	1.7	< 10	< 100	< 3	140,000	< 10	< 0.2	7.5	1,600	< 5	< 1 UJ	130,000	< 1	< 10	23	NA
	05/10/01	< 100	< 1	1.2	680	< 1	< 1	19,000	44 J	< 1	6.3 J	< 10	170	< 3	140,000	< 10	< 0.2	5 J	1,700	< 5	< 1 UJ	140,000	< 1	< 10	69 J	1,290
	07/21/00	NA	< 60	5.2	12	< 2	< 5	NA	31	< 20	< 10	**30**	NA	< 3	NA	NA	< 0.2	< 20	NA	< 5	< 5	NA	< 5	< 10	< 20	1,060
LF5GW102	03/09/06	< 100	< 1	< 5	< 10 UJ	< 2	< 1	2,100	< 10	< 10	< 1	NA	< 100 UJ	< 3	100,000	< 10	< 0.2	< 20	4,300 J	< 5	< 1	100,000	< 1	< 10	< 20	850
	08/30/05	< 100 UJ	< 1	< 5	< 10	< 2	< 1	2,300	< 10	< 10	1.7	NA	< 100	< 3	89,000	< 10	< 0.2	< 20	4,900	< 5	< 1	100,000	< 1	< 10	< 20	560
DUP0830053A	08/30/05	< 100 UJ	< 1	< 5	< 10	< 2	< 1	2,600	< 10	< 10	< 1	NA	230	< 3	97,000	< 10	< 0.2	< 20	5,000	< 5	< 1	110,000	< 1	< 10	< 20	580
LF5GW102CL	08/30/05	< 100 U	< 2 U	2.11	< 10 U	< 1 U	< 1 U	2,350	< 10 U	< 1 U	< 2 U	NA	< 100 U	< 1 U	99,300	< 10 U	< 0.2 U	< 2 U	< 5,000 U	< 2 U	< 1 U	109,000	< 1 U	< 10 U	< 20 U	652
	05/26/05	< 100	< 1	< 5	< 10	< 2	< 1	2,400	< 10	< 10	< 1	NA	< 100	< 3	98,000 J	< 10	< 0.2	< 20	4,500	< 5	< 1	100,000 J	< 1	< 10	< 20	390
	03/21/05	< 100	< 1	< 5	< 10	< 2	< 1	2,300	< 10	< 10	1	NA	< 100	< 3	91,000	< 10	< 0.2	< 20	4,900	< 5	< 1	100,000	< 1	< 10	< 20	610
	12/14/04	< 100	< 1	5.8	< 10	< 2	< 1	2,500 J	< 10	< 10	< 1	NA	< 100	< 3	93,000	< 10	< 0.2	< 20	6,000	< 5	< 1	110,000	< 1	< 10	< 20	640
	08/11/04	< 100	< 1	< 5	< 10 UJ	< 2	< 1	2,700	< 10	< 10	< 1	NA	< 100	< 3	91,000	< 10	< 0.2	< 20	5,800	< 5	< 1	110,000	< 1	< 10	< 20	660
	05/27/04	< 100	< 1	< 5	< 10	< 2	< 1	2,900	< 10	< 10	< 1	NA	< 100	< 3	110,000	< 10	< 0.2	< 20	6,000	< 5	< 1	130,000	< 1	< 10	< 20	670
	03/10/04	< 100	< 1	< 5	< 10	< 2	< 1	3,400	< 10	< 10	< 1	NA	< 100	< 3	97,000	< 10	< 0.2	< 20	5,600	< 5	< 1 UJ	120,000	< 1	< 10	< 20	640
	12/03/03	< 100	2.2	< 5	< 10	< 2	< 1	5,800	< 10	< 10	< 1	NA	< 100	< 3	76,000	< 10	< 0.2	< 20	8,500	< 5	< 1 UJ	140,000	< 1	14	< 20	610
DUP1203031A	12/03/03	< 100	1.1	< 5	< 10	< 2	< 1	5,900	< 10	< 10	< 1	NA	< 100	< 3	78,000	< 10	< 0.2	< 20	8,500	< 5	< 1 UJ	150,000	< 1	14	< 20	700
LF5GW102CL	12/03/03	< 1,000	< 5	9.1	< 10	< 1	< 1	6,000	< 10	< 7	< 10	NA	< 500	< 3	83,000	12	< 0.2	< 10	8,800	< 5	< 1	140,000	< 2	17	< 20	680
	08/13/03	< 100	2.2	5.9	< 10	< 2	< 1	11,000	< 10	< 10	1.4	NA	< 100	< 3	51,000	21	< 0.2	< 20	11,000	< 5	< 1 UJ	230,000	< 1	< 10	< 20	750
	06/06/03	< 100	1.4	6.1	< 10	< 2	< 1	15,000	< 10	< 10	< 1	NA	< 100	< 3	54,000	20	< 0.2	< 20	12,000	< 5	< 1 UJ	260,000	< 1	< 10	< 20	1,070
LF5GW103	03/09/06	< 100	< 1	< 5	74 J	< 2	< 1	23,000	50	< 10	< 1	NA	< 100 UJ	< 3	95,000	< 10	< 0.2	< 20	1,200 J	< 5	< 1	96,000	< 20	< 10	< 20	700
	08/30/05	< 100 UJ	< 1	< 5	74	< 2	< 1	25,000	49	< 10	< 1	NA	140	< 3	93,000	< 10	< 0.2	< 20	1,200	< 5	< 1	97,000	< 1	< 10	< 20	640
	05/24/05	< 100 UJ	< 1	< 5	73	< 2	< 1	25,000	48	< 10	< 1	NA	< 100	< 3	98,000	< 10	< 0.2	< 20	1,200	< 5	< 1	100,000	< 1	< 10	< 20	840
	03/15/05	< 100	< 1	< 5	73	< 2	< 1	29,000	47	< 10	< 1	NA	200	< 3	120,000	< 10	< 0.2	< 20	1,200	< 5	< 1	120,000	< 1	< 10	< 20	630
	12/14/04	< 100	< 1	< 5	58	< 2	< 1	24,000 J	46	< 10	< 1	NA	< 100	< 3	99,000	< 10	< 0.2	< 20	1,200	< 5	< 1	100,000	< 1	< 10	< 20	730
	08/11/04	< 100	< 1	< 5	62 J	< 2	< 1	26,000	46	< 10	< 1	NA	< 100	< 3	93,000	< 10	< 0.2	< 20	1,200	< 5	< 1	92,000	< 1	< 10	< 20	650
	05/27/04	< 100	< 1	< 5	71	< 2	< 1	27,000	49	< 10	< 1	NA	< 100	< 3	110,000	< 10	< 0.2	< 20	1100	< 5	< 1	110,000	< 1	< 10	< 20	740
	03/10/04	< 100	< 1	< 5	70	< 2	< 1	26,000	45	< 10	< 1	NA	< 100	< 3	95,000	< 10	< 0.2	< 20	1,100	< 5	< 1 UJ	96,000	< 1	< 10	< 20	700
	12/03/03	< 100	2	< 5	67	< 2	< 1	26,000	47	< 10	< 1	NA	130	< 3	95,000	< 10	< 0.2	< 20	1,200	< 5	< 1 UJ	100,000	< 1	< 10	< 20	670
	08/19/03	< 100	< 1	< 5	57	< 2	< 1	25,000	48	< 10	< 1	NA	140	< 3	97,000	< 10	< 0.2	< 20	1,200	< 5	< 1 UJ	97,000	< 1	< 10	< 20 UJ	760
DUP0819032A	08/19/03	< 100	1.5	< 5	56	< 2	< 1	25,000	47	< 10	< 1	NA	110	< 3	100,000	< 10	< 0.2	< 20	1,100	< 5	< 1 UJ	100,000	< 1	< 10	< 20 UJ	720
LF5GW103CL	08/19/03	< 100	< 5	< 5	51	< 1	< 1	25,000	**56**	< 7	< 10	NA	< 500 UJ	< 3	99,000	18	< 0.2	13	1,300	< 5	< 1	100,000	< 2	< 10	< 20	760
	06/05/03	< 100	1.2	< 5	44	< 2	< 1	25,000	45	< 10	< 1	NA	< 100	< 3	99,000	< 10	< 0.2	< 20	1,300	< 5	< 1 UJ	97,000	< 1	< 10	< 20	700
LF5GW104	03/07/06	< 100	< 1	< 5	110	< 2	< 1	31,000 J	36	< 10	< 1	NA	160	< 3	120,000	< 10	NA	< 20	930	< 5	< 1	130,000	< 1	< 10	< 20	970
DUP0307063B	03/07/06	< 100	< 1	< 5	110	< 2	< 1	30,000 J	35	< 10	< 1	NA	150	< 3	110,000	< 10	NA	< 20	930	< 5	< 1	130,000	< 1	< 10	< 20	860
LF5GW104CL	03/07/06	< 100 U	< 2 U	< 2 U	130	< 1 U	< 1 U	38,000	40	< 1 U	< 2 U	NA	< 100 U	< 1 U	130,000	< 10 U	**0.625**	4.8	< 5000 U	2.9	< 1 U	150,000	< 1 U	< 10 U	< 20 U	982 J+
	08/30/05	< 100 UJ	< 1	< 5	110	< 2	< 1	32,000	35	< 10	< 1	NA	140	< 3	100,000	< 10	< 0.2	< 20	920	< 5	< 1	120,000	< 1	< 10	< 20	810
	05/24/05	< 100 UJ	< 1	< 5	120	< 2	< 1	41,000	37	< 10	< 1	NA	< 100	< 3	130,000	< 10	< 0.2	< 20	1,100	< 5	< 1	140,000	< 1	< 10	< 20	990
	03/15/05	< 100	< 1	< 5	100	< 2	< 1	41,000	31	< 10	< 1	NA	< 100	< 3	130,000	< 10	< 0.2	< 20	1,200	< 5	< 1	140,000	< 1	< 10	< 20	900
	12/14/04	< 100	< 1	< 5	72	< 2	< 1	28,000 J	33	< 10	< 1	NA	< 100	< 3	93,000	< 10	< 0.2	< 20	950	< 5	< 1	120,000	< 1	< 10	< 20	790
	08/11/04	< 100	< 1	< 5	64 J	< 2	< 1	32,000	34	< 10	1.1	NA	< 100	< 3	96,000	< 10	< 0.2	< 20	1,000	< 5	< 1	110,000	< 1	< 10	< 20	790

Table A-9-7
Results of Total and Dissolved Metals Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium [2]	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method [1]	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7040/ SW7470/ SW7470A	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [3]		**--**	**6**	**50**	**1,000**	**4**	**1.1**	**250,000**	**50**	**--**	**11.8**	**11**	**--**	**3.2**	**--**	**--**	**0.012**	**100**	**--**	**5**	**4.1**	**--**	**2**	**--**	**106**	**--**
LF5GW104	05/26/04	< 100	< 1	< 5	92	< 2	< 1	67,000	35	< 10	< 1	NA	< 100	< 3	220,000	< 10	< 0.2	< 20	930	< 5	< 1	260,000	< 1	< 10	< 20	860
	03/10/04	< 100	< 1	< 5	99	< 2	< 1	39,000	33	< 10	< 1	NA	120	< 3	120,000	< 10	< 0.2	< 20	1,200	< 5	< 1 UJ	130,000	< 1	< 10	< 20	890
	12/03/03	< 100	2.7	< 5	75	< 2	< 1	30,000	34	< 10	< 1	NA	130	< 3	91,000	< 10	< 0.2	< 20	1,000	< 5	< 1 UJ	120,000	< 1	< 10	< 20	750
	08/13/03	< 100	2.4	< 5	52	< 2	< 1	29,000	36	< 10	< 1	NA	130	< 3	95,000	< 10	< 0.2	< 20	1,100	< 5	< 1 UJ	110,000	< 1	< 10	< 20	770
	06/05/03	< 100	1.4	< 5	45	< 2	< 1	35,000	35	< 10	< 1	NA	< 100	< 3	110,000	< 10	< 0.2	< 20	1,400	< 5	< 1 UJ	120,000	< 1	< 10	< 20	860
LF5SP100	03/21/06	< 100	< 1	< 5	42	< 2	< 1	13,000	< 10	< 10	3.5	NA	220	< 3	20,000	< 10	< 0.2	< 20	3,000	< 5	< 1	43,000	< 1	< 10	< 20	470
	03/22/05	< 100	< 1	< 5	24	< 2	< 1	8,600	< 10	< 10	3.6	NA	400	< 3	9,900	< 10	< 0.2	< 20	2,400	< 5	< 1	25,000	< 1	< 10	< 20	NA
1349MW01 [4]	03/01/07	< 100	< 1	< 5	32	< 2	1.5 J	110,000	< 10	< 10	11	NA	110	< 3	230,000	< 10	< 0.2	< 20	2,000 J	< 5	< 1	250,000	< 1	< 10	25 J	1,810
DUP0301073A	03/01/07	< 100	< 1	< 5	31	< 2	1.4 J	110,000	< 10	< 10	1.4	NA	< 100	< 3	210,000	< 10	< 0.2	< 20	2,000 J	< 5	< 1	230,000	< 1	< 10	25 J	1,860
1349MW01CL	03/01/07	< 50	0.07	7	29.3	< 0.02	0.82	113,000	< 5	0.43	1.4	NA	< 20	0.2	233,000	< 5	< 0.2	13.8	< 2,000	< 5	0.13	270,000	< 0.02	< 10	689	1,800 J-
	03/16/06	< 100	< 1	< 5	32	< 2	< 1	110,000	< 10	< 10	< 1	NA	< 100	< 3	230,000 J	< 10	< 0.2	< 20	1,900 J-	< 5	< 1	250,000	< 1	< 10	< 20	2,040 J
	03/21/05	< 100	< 1	< 5	34	< 2	< 1	92,000	< 10	< 10	1.1	NA	220	< 3	170,000	< 10	< 0.2	< 20	1,700	< 5	< 1	190,000	< 1	< 10	< 20	1,500
	03/15/04	< 100	< 1	< 5	34 J-	< 2	< 1	110,000	< 10	< 10	3	NA	270	< 3	210,000	< 10	< 0.2	< 20	1,800	< 5	< 1	250,000	< 1	< 10	< 20	1,650
	12/02/03	< 100	< 1	< 5	38	< 2	< 1	86,000	< 10	< 10	1.3	NA	370	< 3	180,000	< 10	< 0.2	< 20	1,900	< 5	< 1 UJ	200,000	< 1	< 10	< 20	1,240
	08/21/03	< 100	< 1	< 5	39	< 2	< 1	94,000	< 10	< 10	< 1	NA	610	< 3	200,000	< 10	< 0.2	< 20	1,700	5.3	< 1 UJ	200,000	< 1	< 10	< 20 UJ	1,660
	06/10/03	< 100	< 1	< 5	38	< 2	< 1	100,000	< 10	< 10	< 1	NA	150	< 3	180,000	12	< 0.2	< 20	1,900	< 5	< 1	170,000	< 1	< 10	< 20	1,650
	12/09/02	< 100	< 1	< 1	44	< 1	< 1	100,000	8.2	< 1	< 1	< 10	330	< 3	210,000	10 J	0.22	6.9	2,100	< 5	< 1 UJ	200,000	< 1	< 10	< 10	1,490
DUP1209021A	12/09/02	< 100	< 1	< 1	46	< 1	< 1	100,000	10	< 1	< 1	< 10	320	< 3	210,000	12 J	< 0.2	11	2,100	< 5	< 1 UJ	190,000	< 1	< 10	< 10	1,580
1349MW01CL	12/09/02	< 300	< 5	14	46	< 1	< 1	110,000 J+	7.3	< 7	6.5	< 5	< 150	< 3	240,000	11	< 0.2	12	2,600	6.1	< 1	210,000	< 2	< 10	< 10	1,600
	08/28/02	< 100	< 1	< 1	280	< 1	< 1	110,000	1.2 J	< 1	1.3	< 10	180	< 3	230,000	< 10	< 0.2	3.8	2,000	< 5	< 1 UJ	230,000	< 1	< 10	30	1,750
	05/30/02	< 100	< 1	< 1	42	< 1	< 1	100,000	3.2	< 1	1.2	< 10 UJ	200	< 3	210,000	< 10	< 0.2	4.3	2,000	< 5	< 1 UJ	210,000	< 1	< 10	< 10	1,670
	03/06/02	< 100	1.1	1.1	450	< 1	< 1	130,000	3.8	< 1	1.4	< 10	480	< 3	270,000	< 10	< 0.2	5.6	2,200	< 5	1.8 J-	290,000	< 1	< 10	90	1,660
	11/28/01	< 100	< 1	1.9	590	< 1	< 1	120,000	27 J	< 1	3.4	< 10	< 100	< 3	250,000	15	< 0.2	8.8	2,500	11	< 1	240,000	< 1	< 10	200	1,610
	08/30/01	< 100	1.6	< 1	470 J+	< 1	< 1	98,000	16	< 1	2.7	< 10 UJ	300	< 3	260,000	15	< 0.2	14	2,300	< 5	< 1 UJ	210,000	< 1	< 10	98	NA
DUP0830013A	08/30/01	< 100	< 1	< 1	110 J+	< 1	< 1	98,000	15	< 1	2	< 10 UJ	300	< 3	260,000	15	< 0.2	17	1,800	< 5	< 1 UJ	210,000	< 1	< 10	13	NA
1349MW01CL	08/30/01	< 200	0.53 J	< 2	110	< 1	< 1	100,000	7.2	0.97 J	1.5 J	< 10	< 200	< 5	220,000	16	< 0.2	6.7	2,600	7.4	< 1	260,000	< 5	< 5	19	2,100
	05/10/01	< 100	< 1	1.3	620	< 1	< 1	110,000	10 J	< 1	4.6 J	< 10 UJ	840	< 3	230,000	11	< 0.2	5.4 J	2,700	5.9	< 1 UJ	220,000	< 1	< 10	180 J	1,690 J
	05/19/99	< 100	NA	NA	NA	NA	NA	107,000	NA	NA	< 10	NA	< 100	NA	240,000	< 10	NA	NA	< 5,000	NA	NA	203,000	NA	NA	NA	1,900
	02/19/99	< 100	NA	NA	NA	NA	NA	101,000	NA	NA	< 10	NA	< 100	NA	234,000	< 10	NA	NA	< 5,000	NA	NA	193,000	NA	NA	NA	1,800
	11/18/98	< 100	NA	NA	NA	NA	NA	96,900	NA	NA	< 10	NA	< 100	NA	237,000	< 10	NA	NA	< 5,000	NA	NA	190,000	NA	NA	NA	1,640
	08/18/98	< 100	NA	NA	NA	NA	NA	102,000	NA	NA	11.8	NA	< 100	NA	248,000	< 10	NA	NA	< 5,000	NA	NA	197,000	NA	NA	NA	1,900
	04/16/98	< 100	NA	NA	NA	NA	NA	100,000	NA	NA	28.4	< 10 (U16)	< 100	NA	222,000	< 10	NA	NA	< 5,000	NA	NA	200,000	NA	NA	NA	1,980
	01/22/98	< 100	NA	NA	NA	NA	NA	94,900	NA	NA	< 10	NA	< 100	NA	238,000	13.4	NA	NA	< 5,000	NA	NA	182,000	NA	NA	NA	1,830
	10/30/97	< 100	NA	NA	NA	NA	NA	97,000	NA	NA	< 20	NA	< 100	NA	237,000	24.2	NA	NA	< 5,000	NA	NA	178,000	NA	NA	NA	1,950
	07/31/97	< 100	NA	NA	NA	NA	NA	93,200	NA	NA	< 20	NA	< 100	NA	221,000	14.2	NA	NA	< 5,000	NA	NA	190,000	NA	NA	NA	1,650
	05/01/97	< 100	NA	NA	NA	NA	NA	110,000	NA	NA	< 10	NA	< 100	NA	263,000	29	NA	NA	3,040	NA	NA	191,000	NA	NA	NA	1,830
	02/10/97	< 100	NA	NA	NA	NA	NA	118,000	NA	NA	5.1	NA	< 100	NA	260,000	34	NA	NA	< 5,000	NA	NA	234,000	NA	NA	NA	2,090
1349MW02 [4]	02/28/07	< 100	< 1	< 5	250	< 2	< 1	91,000	81	< 10	< 1	NA	< 100	< 3	430,000	< 10	< 0.2	< 20	< 500	< 5	< 1	250,000	< 1	< 10	< 20	2,270
	03/10/06	< 100	< 1	< 5	230 J	< 2	1.1	80,000	75	< 10	1.2	NA	230 J	< 3	260,000	13	< 0.2	< 20	810 J	< 5	< 1	210,000	< 1	< 10	< 20	2,060
	08/31/05	< 100	< 1	< 5	210	< 2	< 1	75,000	60	< 10	1.1	NA	140	< 3	280,000	< 10	< 0.2	< 20	< 500	< 5	< 1	210,000	< 1	< 10	< 20	2,170
	05/25/05	< 100 UJ	< 1	< 5	250	< 2	< 1	95,000	56	< 10	< 1	NA	< 100	< 3	270,000	< 10	< 0.2	< 20	660	< 5	< 1	220,000	< 1	< 10	< 20	2,030
	03/21/05	< 100	< 1	< 5	310	< 2	< 1	130,000	67	< 10	3	NA	350	< 3	210,000	< 10	< 0.2	< 20	660	< 5	< 1	190,000	< 1	< 10	< 20	1,780

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Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium [2]	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method [1]	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7040/ SW7470/ SW7470A	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [3]		--	**6**	**50**	**1,000**	**4**	**1.1**	**250,000**	**50**	--	**11.8**	**11**	--	**3.2**	--	--	**0.012**	**100**	--	**5**	**4.1**	--	**2**	--	**106**	--
1349MW02 [4]	12/16/04	< 100	< 1	< 5	160	< 2	< 1	52,000	76	< 10	< 1	NA	190	< 3	250,000	< 10	< 0.2	< 20	< 500	< 5	< 1	200,000	< 1	< 10	< 20	1,690
	08/12/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,620
	05/26/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,620
	03/15/04	< 100	< 1	< 5	230 J-	< 2	< 1	85,000	83	< 10	1.8	NA	190	< 3	270,000	< 10	< 0.2	< 20	< 500	< 5	< 1	230,000	< 1	< 10	< 20	1,600
	02/28/07	< 100	< 1	< 5	250	< 2	< 1	91,000	81	< 10	< 1	NA	< 100	< 3	430,000	< 10	< 0.2	< 20	< 500	< 5	< 1	250,000	< 1	< 10	< 20	2,270
	12/02/03	< 100	1.3	< 5	170	< 2	< 1	57,000	75	< 10	1.1	NA	220	< 3	270,000	< 10	< 0.2	< 20	< 500	< 5	< 1 UJ	200,000	< 1	< 10	< 20	1,160
	08/13/03	< 100	1.7	< 5	180	< 2	< 1	61,000	87	< 10	< 1	NA	300	< 3	230,000	< 10	< 0.2	< 20	< 500	< 5	< 1 UJ	190,000	< 1	< 10	< 20	1,540
	06/05/03	< 100	1.3	< 5	180	< 2	< 1	59,000	80	< 10	1.2	NA	150	< 3	250,000	< 10	0.26	< 20	530	< 5	< 1	210,000	< 1	< 10	< 20	1,440
DUP0605032A	06/05/03	< 100	1.3	< 5	180	< 2	< 1	65,000	83	< 10	< 1	NA	100	< 3	240,000	< 10	< 0.2	< 20	< 500	< 5	< 1	190,000	< 1	< 10	< 20	1,500
	12/04/02	< 100	< 1	< 1	160	< 1	< 1	53,000	92	< 1	< 1	80	160	< 3	220,000	< 10	< 0.2	6.3	< 500	< 5	< 1 UJ	180,000	< 1	< 10	< 10	1,600
DUP1204023A	12/04/02	< 100	< 1	< 1	160	< 1	< 1	52,000	94	< 1	1.1	80	160	< 3	220,000	< 10	< 0.2	6.6	< 500	< 5	< 1 UJ	180,000	< 1	< 10	< 10	1,400
	08/28/02	< 100	1.2	< 1	510	< 1	< 1	55,000	82 J	< 1	1.4	90	< 100	< 3	240,000	< 10	< 0.2	6.2	660	< 5	< 1 UJ	210,000	< 1	< 10	68	1,500
	05/30/02	< 100	< 1	< 1	460	< 1	< 1	61,000	79	< 1	1.4	70 J-	< 100	< 3	230,000	< 10	< 0.2	5.1	690	< 5	< 1 UJ	200,000	< 1	< 10	87	1,610
	03/06/02	< 100	< 1	< 1	340	< 1	< 1	90,000	95	< 1	< 1	90	310	< 3	270,000	< 10	< 0.2	7	580	< 5	< 1 UJ	240,000	< 1	< 10	< 10	1,610
DUP0306022A	03/06/02	< 100	< 1	< 1	390	< 1	< 1	96,000	97	< 1	< 1	90 J-	310	< 3	290,000	< 10	< 0.2	7.2	600	< 5	< 1 UJ	260,000	< 1	< 10	16	1,580
	11/28/01	< 100	< 1	1.2	760	< 1	< 1	51,000	130 J	< 1	2.7	100	< 100	< 3	260,000	< 10	< 0.2	8.2	1,100	5.1	< 1	220,000	< 1	< 10	190	1,510
DUP1128011A	11/28/01	< 100	< 1	1	350	< 1	< 1	52,000	130 J	< 1	2.1	100 J	< 100	< 3	260,000	< 10	< 0.2	8.4	900	< 5	< 1	220,000	< 1	< 10	30	1,470
	08/30/01	< 100	< 1	< 1	150 J+	< 1	< 1	45,000	110	< 1	1.8	< 10	150	< 3	250,000	< 10	< 0.2	6.9	< 500	< 5	< 1 UJ	210,000	< 1	< 10	< 10	1,550
DUP0830012A	08/30/01	< 100	< 1	< 1	160 J+	< 1	< 1	47,000	100	< 1	1.9	< 10	150	< 3	260,000	< 10	< 0.2	6.6	<500	< 5	< 1 UJ	210,000	< 1	< 10	15	1,470
1349MW02CL	08/30/01	< 200	1.2 J	< 2	800	< 1	< 1	47,000	110	0.92 J	1.7 J	90	< 200	< 5	230,000	< 5	< 0.2	8.3	<1,000	7.9	< 1	280,000	< 1	< 5	170	1,900
	05/10/01	< 100	< 1	1.1	560	< 1	< 1	49,000	98 J	< 1	4.2 J	70 J	390	<3	250,000	< 10	< 0.2	9.3 J	780	< 5	< 1 UJ	210,000	< 1	< 10	160 J	1,620 J
	05/19/99	< 100	NA	NA	NA	NA	NA	57,300	NA	NA	< 10	NA	< 100	NA	274,000	< 10	NA	NA	< 5,000	NA	NA	204,000	NA	NA	NA	1,900
	02/19/99	< 100	NA	NA	NA	NA	NA	63,500	NA	NA	< 10	NA	< 100	NA	284,000	< 10	NA	NA	< 5,000	NA	NA	215,000	NA	NA	NA	1,840
	11/18/98	< 100	NA	NA	NA	NA	NA	59,300	NA	NA	18.7	NA	< 100	NA	283,000	< 10	NA	NA	< 5,000	NA	NA	213,000	NA	NA	NA	1,770
	08/18/98	< 100	NA	NA	NA	NA	NA	57,800	NA	NA	< 10	NA	< 100	NA	267,000	< 10	NA	NA	< 5,000	NA	NA	211,000	NA	NA	NA	1,900
	04/16/98	< 100	NA	NA	NA	NA	NA	53,500	NA	NA	< 10	43 (J16)	< 100	NA	233,000	< 10	NA	NA	< 5,000	NA	NA	195,000	NA	NA	NA	1,760
	01/22/98	< 100	NA	NA	NA	NA	NA	50,800	NA	NA	< 10	NA	< 100	NA	244,000	< 10	NA	NA	< 5,000	NA	NA	196,000	NA	NA	NA	1,750
	10/30/97	< 100	NA	NA	NA	NA	NA	52,300	NA	NA	< 20	NA	< 100	NA	244,000	< 10	NA	NA	< 5,000	NA	NA	199,000	NA	NA	NA	1,750
	07/31/97	< 100	NA	NA	NA	NA	NA	51,300	NA	NA	< 20	NA	< 100	NA	249,000	< 10	NA	NA	< 5,000	NA	NA	205,000	NA	NA	NA	1,810
	05/01/97	< 100	NA	NA	NA	NA	NA	53,900	NA	NA	< 10	NA	< 100	NA	266,000	< 10	NA	NA	< 1,000	NA	NA	188,000	NA	NA	NA	1,700
	02/10/97	< 100	NA	NA	NA	NA	NA	39,600	NA	NA	2.5	NA	< 100	NA	176,000	19.7	NA	NA	< 5,000	NA	NA	145,000	NA	NA	NA	1,490
1349MW03R	03/16/06	< 100	< 1	< 5	81	< 2	< 1	52,000	120	< 10	< 1	NA	< 100	< 3	220,000 J	< 10	< 0.2	< 20	1,300 J-	< 5	< 1	280,000	< 1	< 10	< 20	2,060
	11/30/05	< 100	< 1	< 5	23	< 2	< 1	23,000	**100 J**	< 10	< 1	NA	100	< 3	110,000	< 10	< 0.2	< 20	660	< 5	< 1	79,000	< 1	< 10	< 20	750
	08/31/05	< 100	< 1	< 5	19	< 2	< 1	29,000	**100**	< 10	< 1	NA	< 100	< 3	110,000	< 10	< 0.2	< 20	870	< 5	< 1	85,000	< 1	< 10	< 20	710
	05/25/05	< 100 UJ	< 1	< 5	41 J	< 2	< 1	46,000	**130**	< 10	< 1	NA	< 100	< 3	190,000	< 10	< 0.2	< 20	1,700	< 5	< 1	190,000	< 1	< 10	< 20	1,460
	03/21/05	< 100	< 1	< 5	90	< 2	< 1	70,000	**190**	< 10	1.3	NA	180	< 3	230,000	< 10	< 0.2	< 20	4,100	< 5	< 1	300,000	< 1	< 10	< 20	1,980
	12/16/04	< 100	< 1	< 5	< 10	< 2	< 1	19,000	**68**	< 10	< 1	NA	< 100	< 3	78,000	< 10	< 0.2	< 20	2,200	< 5	< 1	57,000	< 1	< 10	< 20	530
	08/10/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	540
	05/26/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	580
	03/09/04	< 100	< 1	< 5	< 10	< 2	< 1	23,000	**94**	< 10	< 1	NA	< 100	< 3	84,000	< 10	< 0.2	< 20	3,000 J	< 5	< 1 UJ	67,000	< 1	< 10	< 20	550
	12/02/03	< 100	1.9	5.4	< 10	< 2	< 1	18,000	42	< 10	< 1	NA	< 100	< 3	68,000	< 10	< 0.2	< 20	4,400	< 5	< 1 UJ	56,000	< 1	< 10	< 20	360
	08/13/03	< 100	3.3	7.4	< 10	< 2	< 1	24,000	**59**	< 10	< 1	NA	120	< 3	70,000	< 10	< 0.2	< 20	6,100	< 5	< 1 UJ	63,000	< 1	< 10	< 20	510
	06/09/03	< 100	1.4	6.2	< 10	< 2	< 1	30,000	44	< 10	< 1	NA	< 100	< 3	60,000	< 10	< 0.2	< 20	9,700	< 5	< 1 UJ	100,000	< 1	< 10	< 20	690

Table A-9-7
Results of Total and Dissolved Metals Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium [2]	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method [1]	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7040/ SW7470/ SW7470A	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [3]		--	**6**	**50**	**1,000**	**4**	**1.1**	**250,000**	**50**	--	**11.8**	**11**	--	**3.2**	--	--	**0.012**	**100**	--	**5**	**4.1**	--	**2**	--	**106**	--
1349MW100 [4]	06/06/07	< 100 UJ	< 1	9.4	610	< 2	< 1	140,000 J-	< 10	< 10	< 1	NA	39,000 J-	< 3	190,000	13,000	< 0.2	< 20	2,000 J-	< 5	< 1	350,000	< 1	< 10	< 20	2,920
	06/06/07	< 50	< 0.1	18	710	< 0.04	< 0.04	145,000	< 5	0.98	1	NA	39,300	< 0.1	213,000	15,300	< 0.2	9.7	< 2,000	< 5	< 0.04	405,000	< 0.04	< 10	< 10	2,360
	06/06/07	< 100 UJ	< 1	8.5	620	< 2	< 1	150,000 J-	< 10	< 10	< 1	NA	41,000 J-	< 3	190,000	13,000	< 0.2	< 20	2,100 J-	< 5	< 1	360,000	< 1	< 10	< 20	2,280
	03/01/07	< 100	< 1	7.5	730	< 2	< 1 UJ	150,000	< 10	< 10	< 1	NA	33,000	< 3	200,000	15,000	< 0.2	< 20	2,200 J	< 5	< 1	400,000	< 1	< 10	< 20 UJ	2,110
DUP0301073B	03/01/07	< 100	< 1	7.8	660	< 2	< 1 UJ	130,000	< 10	< 10	< 1	NA	31,000	< 3	180,000	14,000	< 0.2	< 20	2,100 J	< 5	< 1	360,000	< 1	< 10	< 20 UJ	2,070
	12/05/06	< 100	< 1	12	530	< 2	< 1	170,000	< 10	< 10	< 1	NA	58,000	< 3	240,000	14,000	< 0.2	< 20	2,500 J	< 5	< 1	420,000	< 1	< 10	< 20	2,320 J+
	08/16/06	< 100	< 1	8.9	560	< 2	< 1	160,000	< 10	< 10	< 1	NA	42,000	< 3	230,000	14,000	< 0.2 UJ	< 20	2,800	< 5	< 1	480,000	< 1	< 10	< 20	2,160
	05/24/06	< 100	< 1	13	380	< 2	< 1	150,000	< 10	< 10	< 1	NA	33,000	< 3	200,000	14,000	< 0.2	< 20	3,800	< 5	< 1	460,000	< 1	< 10	< 20	2,550
DUP0524063A	05/24/06	< 100	< 1	12	380	< 2	< 1	140,000	< 10	< 10	< 1	NA	34,000	< 3	200,000	14,000	< 0.2	< 20	3,500	< 5	< 1	450,000	< 1	< 10	< 20	2,460
1349MW100CL	05/24/06	< 100 U	< 2 U	15	425	< 10 U	< 1 U	165,000	< 10 U	5.1	4.3	NA	36,500 J+	< 1 U	226,000	14,800	< 0.2 U	15	< 5,000 U	< 2 U	< 1 U	502,000	< 1 U	< 10 U	< 20 U	2,110
	03/16/06	< 100	< 1	9.4	450	< 2	< 1	130,000	< 10	< 10	< 1	NA	27,000	< 3	180,000 J	14,000	< 0.2	< 20	2,700 J-	**10**	< 1	400,000	< 1	< 10	< 20	510
	11/30/05	< 100	< 1	9.6	840	< 2	< 1	200,000	< 10 UJ	< 10	1	NA	52,000	< 3	290,000	20,000	< 0.2	< 20	2,400	< 5	< 1	400,000	< 1	< 10	21	5,570
	08/31/05	< 100	< 1	< 5	1,200	< 2	< 1	260,000	< 10	< 10	1.1	NA	63,000	< 3	390,000	26,000	< 0.2	< 20	2,700 J	< 5	< 1	470,000	< 1	< 10	31	3,890
	05/25/05	< 100 UJ	< 1	11	490	< 2	< 1	170,000	< 10	< 10	< 1	NA	33,000	< 3	210,000	16,000	< 0.2	< 20	3,100	< 5	< 1	440,000	< 1	< 10	< 20	2,260
	03/23/05	< 100	< 1	8	510	< 2	< 1	140,000	< 10	< 10	1.1	NA	31,000	< 3	200,000	13,000	< 0.2	< 20	2,700	< 5	< 1	390,000	< 1	< 10	< 20	2,350
1349MW100 [4]	12/16/04	< 100	< 1	20	530	< 2	< 1	190,000	< 10	< 10	1.8	NA	39,000	< 3	280,000	18,000	< 0.2	< 20	3,300	< 5	< 1	390,000	< 1	< 10	< 20	2,870
	08/10/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,450
	05/26/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,490
	03/16/04	< 100	1.8	11	600 J-	< 2	< 1	150,000	< 10	< 10	1.3	NA	30,000	< 3	210,000	16,000	< 0.2	< 20	2,800	< 5	< 1	440,000	< 1	< 10	< 20	2,050
	12/02/03	< 100	2.6	23	530	< 2	< 1	170,000	16	< 10	1.3	NA	36,000	< 3	290,000	15,000	< 0.2	< 20	3,900	< 5	< 1 UJ	380,000	< 1	< 10	< 20	1,820
	08/12/03	< 100	< 1	15 J+	700	< 2	< 1	160,000	15 J	< 10	< 1	NA	21,000	< 3	250,000	160	< 0.2	< 20	3,400	< 5	< 1 UJ	350,000	< 1	< 10	< 20 UJ	2,450
	06/09/03	< 100	1.9	14	520	< 2	< 1	130,000	10	< 10	< 1	NA	25,000	< 3	190,000	14,000	< 0.2	< 20	2,900	< 5	< 1 UJ	370,000	< 1	< 10	< 20	2,200
	03/12/03	< 100	< 1	7.9	680	< 1	< 1	140,000	7.2	8.9	< 1	< 10	13,000	< 3	190,000	14,000	< 0.2	15	2,600	< 5	< 1 UJ	330,000 J-	< 1	< 10	< 10	2,100
	12/10/02	< 100	< 1	5.9	300	< 1	< 1	190,000	12	33	1.3	< 10	4,600	< 3	290,000	6,600 J	< 0.2	28	7,600	< 5	< 1 UJ	300,000	< 1	< 10	< 10	2,480
1349MW101	03/16/06	< 100	< 1	< 5	< 10	< 2	< 1	15,000	41	< 10	< 1	NA	< 100	< 3	58,000 J	< 10	< 0.2	< 20	1,700 J-	< 5	< 1	94,000	< 1	< 10	< 20	750
	08/31/05	< 100	< 1	< 5	< 10	< 2	< 1	16,000	25	< 10	< 1	NA	< 100	< 3	62,000	< 10	< 0.2	< 20	2,200	< 5	< 1	100,000	< 1	< 10	< 20	660
	05/25/05	< 100 UJ	< 1	5.5	< 10 UJ	< 2	< 1	19,000	25	< 10	< 1	NA	< 100	< 3	73,000	< 10	< 0.2	< 20	3,100	< 5	< 1	130,000	< 1	< 10	< 20	650
DUP0525052A	05/25/05	< 100 UJ	< 1	5.5	< 10 UJ	< 2	< 1	19,000	25	< 10	< 1	NA	< 100	< 3	72,000	< 10	< 0.2	< 20	3,000	< 5	< 1	120,000	< 1	< 10	< 20	560
	03/21/05	< 100	< 1	5.7	< 10	< 2	< 1	19,000	33	< 10	1	NA	< 100	< 3	57,000	< 10	< 0.2	< 20	3,000	< 5	< 1	97,000	< 1	< 10	< 20	430
	12/15/04	< 100	< 1	5.1	< 10	< 2	< 1	19,000 J	24	< 10	< 1	NA	< 100	< 3	45,000	< 10	< 0.2	< 20	3,400	< 5	< 1	66,000	< 1 UJ	< 10	< 20	550
	03/09/04	< 100	1.3	5.2	< 10	< 2	< 1	23,000	45	< 10	< 1	NA	< 100	< 3	61,000	< 10	< 0.2	< 20	4,300 J	< 5	< 1 UJ	99,000	< 1	< 10	< 20	590
	12/02/03	< 100	1.8	< 5	< 10	< 2	< 1	20,000	15	< 10	< 1	NA	< 100	< 3	54,000	24	< 0.2	< 20	6,300	< 5	< 1 UJ	120,000	< 1	< 10	< 20	390
	08/19/03	< 100	< 1	5.9	< 10	< 2	< 1	29,000	15	< 10	< 1	NA	120	< 3	57,000	19	< 0.2	< 20	7,500	< 5	< 1 UJ	150,000	< 1	< 10	< 20 UJ	660
	06/09/03	< 100	< 1	6.1	< 10	< 2	< 1	36,000	34	< 10	< 1	NA	< 100	< 3	56,000	< 10	< 0.2	< 20	9,800	< 5	< 1 UJ	160,000	< 1	< 10	< 20	890
1349MW102	03/07/06	< 100	< 1	< 5	49	< 2	< 1	42,000 J	< 10	< 10	< 1	NA	190	< 3	98,000	140	NA	< 20	2700	< 5	< 1	190,000	< 1	< 10	< 20	1,070
DUP0307063C	03/07/06	260	< 1	< 5	52	< 2	< 1	41,000 J	< 10	< 10	1.8	NA	530	< 3	96,000	150	NA	< 20	2800	< 5	< 1	180,000	< 1	< 10	< 20	1,000
1349MW102CL	03/07/06	< 100 U	< 2 U	< 2 U	57	< 1 U	< 1 U	52,000	< 10 U	< 1 U	2.7	NA	< 100 U	< 1 U	110,000	160	< 0.2 U	5.4	< 5000 U	2.3	< 1 U	230,000	< 1 U	< 10 U	< 20 U	1,070 J+
	08/31/05	< 100	< 1	< 5	31	< 2	< 1	38,000	< 10	< 10	< 1	NA	< 100	< 3	57,000	< 10	< 0.2	< 20	2,800	< 5	< 1	150,000	< 1	< 10	< 20	850
DUP0831052A	08/31/05	< 100	< 1	< 5	30	< 2	< 1	39,000	< 10	< 10	< 1	NA	< 100	< 3	56,000	10	< 0.2	< 20	2,800	< 5	< 1	150,000	< 1	< 10	< 20	820
	05/25/05	< 100 UJ	< 1	< 5	25 J	< 2	< 1	43,000	< 10	< 10	< 1	NA	< 100	< 3	59,000	< 10	< 0.2	< 20	3,600	< 5	< 1	190,000	< 1	< 10	28	680
	03/21/05	< 100	< 1	< 5	55	< 2	< 1	62,000	< 10	< 10	< 1	NA	170	< 3	93,000	62	< 0.2	< 20	4,400	< 5	< 1	140,000	< 1	< 10	< 20	970
DUP0321053A	03/21/05	< 100	< 1	< 5	49	< 2	< 1	62,000	< 10	< 10	4.8	NA	170	< 3	83,000	48	< 0.2	< 20	4,300	< 5	< 1	150,000	< 1	< 10	< 20	1,040
	12/16/04	< 100	< 1	< 5	74	< 2	< 1	74,000	< 10	< 10	< 1	NA	210	< 3	160,000	410	< 0.2	< 20	3,700	< 5	< 1	180,000	< 1	< 10	< 20	1,280
	08/10/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,160
	08/10/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,260
	05/27/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,270

Table A-9-7
Results of Total and Dissolved Metals Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium [2]	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method [1]	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7040/ SW7470/ SW7470A	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [3]		--	**6**	**50**	**1,000**	**4**	**1.1**	**250,000**	**50**	--	**11.8**	**11**	--	**3.2**	--	--	**0.012**	**100**	--	**5**	**4.1**	--	**2**	--	**106**	--
DUP0527041A	05/27/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,220
1349MW102CL	05/26/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,100
	03/10/04	< 100	< 1	< 5	83	< 2	< 1	73,000	< 10	< 10	< 1	NA	290	< 3	160,000	430	< 0.2	< 20	3,400	< 5	< 1 UJ	160,000	< 1	< 10	< 20	1,150
DUP0310041A	03/10/04	< 100	< 1	< 5	81	< 2	< 1	77,000	< 10	< 10	< 1	NA	260	< 3	160,000	400	< 0.2	< 20	3,300	< 5	< 1 UJ	170,000	< 1	< 10	< 20	1,280
1349MW102CL	03/10/04	< 100	< 5	5.6	77	< 1	< 1	76,000	< 10	< 7	< 10	NA	640	< 3	170,000	420	< 0.2	< 10	3,600	< 5	< 1	170,000	< 2	< 10	< 20	1,100 QB01
	12/10/03	< 100	< 1	< 5	69	< 2	< 1	77,000	< 10	< 10	< 1	NA	420	< 3	160,000	550	< 0.2	< 20	3,800	< 5 R	< 1	160,000	< 1	< 10	< 20 UJ	1,260
DUP1210031A	12/10/03	< 100	1.8	< 5	72	< 2	< 1	80,000	< 10	< 10	1	NA	460	< 3	170,000	600	< 0.2	< 20	4,000	< 5 R	< 1	170,000	< 1	< 10	< 20 UJ	1,090
	08/12/03	< 100	2.7	< 5 UJ	34	< 2	< 1	100,000	< 10 UJ	< 10	< 1	NA	390	< 3	180,000	550	< 0.2	< 20	6,400	< 5	< 1 UJ	190,000	< 1	< 10	< 20 UJ	1,430
	06/09/03	< 100	< 1	< 5	31	< 2	< 1	100,000	< 10	< 10	< 1	NA	210	< 3	190,000	440	< 0.2	< 20	9,800	< 5	< 1 UJ	230,000	< 1	< 10	< 20	1,620
DUP0609032A	06/09/03	< 100	2.9	< 5	32	< 2	< 1	98,000	< 10	< 10	< 1	NA	260	< 3	200,000	450	< 0.2	< 20	9,600	< 5	< 1 UJ	220,000	< 1	< 10	< 20	1,630
1349MW102CL	06/09/03	< 100	< 5	7.3	31	< 1	< 1	110,000	< 5	1.4	< 5	NA	530	< 3	180,000	340	< 0.2	7.4	11,000	< 5	< 1	240,000	< 2	< 10	23	1,900 J-

Total Metals [5]

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium [2]	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method [1]	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7040/ SW7470/ SW7470A	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
LF5SP100	03/21/06	5,200 J	< 1	< 5	440	< 2	< 1	33,000	10	26	< 1	NA	3,400	180	32,000	1100	0.25	110	3,900	< 5	< 1	43,000	1.3	38	420	NA
	03/22/05	10,000	< 1	< 5	61	< 2	< 1	9,000	34	< 10	9.5	NA	12,000	17	11,000	62	< 0.2	37	3,000	< 5	< 1	26,000	< 1	25	41	NA
	12/05/03	1,900	< 60	< 5	69	< 2	**< 5**	14,000	< 10	< 20	< 10	NA	2,200	14	27,000	42	< 0.2	25	4,700	< 5	< 5	70,000	< 5	< 10	35	470
DUP1205031A	12/05/03	1,500	< 60	< 5	68	< 2	**< 5**	14,000	< 10	< 20	< 10	NA	1,700	15	26,000	40	< 0.2	24	4,800	< 5	< 5	70,000	< 5	< 10	37	720
LF5SP100CL	12/05/03	9,600	< 5	< 5	88	< 1	< 1	17,000	39	< 7	11	NA	15,000	18	27,000	73	< 0.2	47	4,900	< 5	< 1	73,000	< 2	31	44	470

Notes
All metal results represent dissolved metals, unless indicated as "total" in the left-hand column, for total metal results. RAP cleanup levels only apply to dissolved metals concentrations or whatever has been used on other metals tables.
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Results of Army and Trust studies support the hypothesis that dissolved chromium and hexavalent chromium measured in groundwater in upland areas of the Presidio appear to be naturally occurring and derived from serpentinite. Hexavalent chromium was not retained as a COC (Treadwell and Rollo, 2002e).
3 - Groundwater cleanup levels were taken from the *Remedial Action Plan and Evaluation of Alternatives for Landfill 4 and Fill Site 5, Presidio of San Francisco, California* (Treadwell & Rollo, 2002e).
4 - Monitoring wells 1349MW01, 1349MW02, and 1349MW100 are located upgradient of Fill Site 5, therefore, the Fill Site 5 cleanup levels do not apply to these wells.
5 - The cleanup levels listed for metals, do not apply to total metals.
Surface water seep sample LF5SP100 is analyzed for total metals rather than dissolved, in accordance with the approved plan.
Groundwater samples collected from monitoring wells 1349MW03R through LF5GW104 were field filtered and analyzed for dissolved metals.
Bold numbers indicate concentrations which exceed cleanup criteria.
-- - Cleanup criteria not established
µg/L - micrograms per liter
mg/L - milligrams per liter
NA - not analyzed
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

A-9-8
Groundwater Elevation Summary
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF5GW100	02/26/07	7.48	229.74	222.26	MW
	08/14/06	6.62	229.74	223.12	MW
	05/22/06	8.54	229.74	221.20	MW
	03/06/06	6.27	229.74	223.47	MW
	11/28/05	9.03	229.74	220.71	MW
	08/29/05	9.67	229.74	220.07	MW
	05/23/05	9.38	229.74	220.36	MW
	03/14/05	9.10	229.74	220.64	MW
	12/13/05	9.10	229.74	220.64	MW
	08/09/04	9.20	229.74	220.54	MW
	05/24/04	9.05	229.74	220.69	MW
	03/08/04	9.10	229.74	220.64	MW
	12/01/03	9.30	229.74	220.44	MW
	08/11/03	6.71	229.74	223.03	MW
	06/02/03	6.98	229.74	222.76	MW
	03/10/03	9.10	229.74	220.64	MW
	12/02/02	7.17	229.74	222.57	MW
	08/26/02	5.05	229.74	224.69	MW
	05/28/02	6.31	229.74	223.43	MW
	03/04/02	5.25	229.74	224.49	MW
	11/26/01	6.73	229.74	223.01	MW
	08/27/01	11.09	229.74	218.65	MW
	05/08/01	6.32	229.74	223.42	MW
LF5GW101	02/26/07	5.80	234.36	228.56	MW
	08/14/06	4.80	234.36	229.56	MW
	05/22/06	5.14	234.36	229.22	MW
	03/06/06	4.59	234.36	229.77	MW
	11/28/05	6.78	234.36	227.58	MW
	08/29/05	6.53	234.36	227.83	MW
	05/23/05	6.10	234.36	228.26	MW
	03/14/05	3.84	234.36	230.52	MW
	12/13/04	7.10	234.36	227.26	MW
	08/09/04	7.42	234.36	226.94	MW
	05/24/04	4.95	234.36	229.41	MW
	03/08/04	3.97	234.36	230.39	MW
	12/01/03	5.15	234.36	229.21	MW
	08/11/03	5.95	234.36	228.41	MW
	06/02/03	5.78	234.36	228.58	MW
	03/10/03	6.85	234.36	227.51	MW
	12/02/02	9.19	234.36	225.17	MW
	08/26/02	5.84	234.36	228.52	MW
	05/28/02	8.65	234.36	225.71	MW
	03/04/02	6.77	234.36	227.59	MW
	11/26/01	8.38	234.36	225.98	MW
	08/27/01	6.66	234.36	227.70	MW
	05/08/01	2.00	234.36	232.36	MW

A-9-8
Groundwater Elevation Summary
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF5GW102	02/26/07	25.37	294.76	269.39	MW
	08/14/06	24.57	294.76	270.19	MW
	05/22/06	23.49	294.76	271.27	MW
	03/06/06	27.57	294.76	267.19	MW
	11/28/05	29.31	294.76	265.45	MW
	08/29/05	28.35	294.76	266.41	MW
	05/23/05	27.92	294.76	266.84	MW
	03/14/05	29.35	294.76	265.41	MW
	12/13/04	31.02	294.76	263.74	MW
	08/09/04	30.33	294.76	264.43	MW
	05/24/04	29.67	294.76	265.09	MW
	03/08/04	30.51	294.76	264.25	MW
	12/01/03	31.23	294.76	263.53	MW
	08/11/03	30.75	294.76	264.01	MW
	06/02/03	29.35	294.76	265.41	MW
LF5GW103	02/26/07	7.48	279.12	271.64	MW
	08/14/06	6.98	279.12	272.14	MW
	05/22/06	6.23	279.12	272.89	MW
	03/06/06	8.49	279.12	270.63	MW
	11/28/05	12.04	279.12	267.08	MW
	08/29/05	11.25	279.12	267.87	MW
	05/23/05	11.14	279.12	267.98	MW
	03/14/05	10.90	279.12	268.22	MW
	12/13/04	14.64	279.12	264.48	MW
	08/09/04	14.38	279.12	264.74	MW
	05/04/04	13.31	279.12	265.81	MW
	03/08/04	13.47	279.12	265.65	MW
	12/01/03	14.31	279.12	264.81	MW
	08/11/03	13.45	279.12	265.67	MW
	06/02/03	12.33	279.12	266.79	MW
LF5GW104	02/26/07	20.76	286.05	265.29	MW
	08/14/06	19.75	286.05	266.30	MW
	05/22/06	17.30	286.05	268.75	MW
	03/06/06	16.52	286.05	269.53	MW
	11/28/05	25.04	286.05	261.01	MW
	08/29/05	23.56	286.05	262.49	MW
	05/23/05	20.24	286.05	265.81	MW
	03/14/05	19.48	286.05	266.57	MW
	12/13/04	26.25	286.05	259.80	MW
	08/09/04	26.64	286.05	259.41	MW
	05/24/04	25.45	286.05	260.60	MW
	03/08/04	20.89	286.05	265.16	MW
	12/01/03	27.06	286.05	258.99	MW
	08/11/03	25.35	286.05	260.70	MW
	06/02/03	23.44	286.05	262.61	MW

A-9-8
Groundwater Elevation Summary
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF5SP100	02/26/07	Not flowing	NM	NM	Seep
	08/14/06	Not flowing	NM	NM	Seep
	05/22/06	Not flowing	NM	NM	Seep
	03/06/06	Flowing	NM	NM	Seep
	11/28/05	Not flowing	NM	NM	Seep
	08/29/05	Not flowing	NM	NM	Seep
	05/23/05	Flowing	NM	NM	Surface
	03/14/05	Not flowing	NM	NM	Surface
	12/13/04	Not flowing	NM	NM	Surface
	08/09/04	Not flowing	NM	NM	Surface
	05/24/04	Not flowing	NM	NM	Surface
	03/08/04	Not flowing	NM	NM	Surface
	12/01/03	Flowing	NM	NM	Surface
1349MW01	06/04/07	25.72	300.44	274.72	MW
	02/26/07	24.80	300.44	275.64	MW
	12/04/06	24.19	300.44	276.25	MW
	08/14/06	22.79	300.44	277.65	MW
	05/22/06	21.54	300.44	278.90	MW
	03/06/06	23.25	300.44	277.19	MW
	11/28/05	26.34	300.44	274.10	MW
	08/29/05	24.94	300.44	275.50	MW
	05/23/05	24.47	300.44	275.97	MW
	03/14/05	25.16	300.44	275.28	MW
	12/13/04	29.14	300.44	271.30	MW
	08/09/04	28.88	300.44	271.56	MW
	05/24/04	27.78	300.44	272.66	MW
	03/08/04	26.84	300.44	273.60	MW
	12/01/03	29.38	300.44	271.06	MW
	08/11/03	27.91	300.44	272.53	MW
	06/02/03	28.33	300.44	272.11	MW
	03/10/03	28.19	300.44	272.25	MW
	12/02/02	29.61	300.44	270.83	MW
	08/26/02	28.69	300.44	271.75	MW
	05/28/02	28.38	300.44	272.06	MW
	03/04/02	27.70	300.44	272.74	MW
	11/26/01	29.76	300.44	270.68	MW
	08/27/01	30.17	300.44	270.27	MW
	05/08/01	29.45	300.44	270.99	MW
1349MW02	06/04/07	29.68	311.22	281.54	MW
	02/26/07	28.90	311.22	282.32	MW
	12/04/06	29.88	311.22	281.34	MW
	08/14/06	27.25	311.22	283.97	MW
	05/22/06	23.43	311.22	287.79	MW
	03/06/06	27.87	311.22	283.35	MW
	11/28/05	33.35	311.22	277.87	MW
	08/29/05	32.03	311.22	279.19	MW
	05/23/05	30.25	311.22	280.97	MW
	03/14/05	32.08	311.22	279.14	MW

A-9-8
Groundwater Elevation Summary
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1349MW02	12/13/04	36.85	311.22	274.37	MW
	08/09/04	35.38	311.22	275.84	MW
	05/24/04	34.20	311.22	277.02	MW
	03/08/04	34.14	311.22	277.08	MW
	12/01/03	36.66	311.22	274.56	MW
	08/11/03	35.46	311.22	275.76	MW
	06/02/03	35.03	311.22	276.19	MW
	03/10/03	35.46	311.22	275.76	MW
	12/02/02	36.98	311.22	274.24	MW
	08/26/02	35.94	311.22	275.28	MW
	05/28/02	34.95	311.22	276.27	MW
	03/04/02	35.54	311.22	275.68	MW
	11/26/01	37.75	311.22	273.47	MW
	08/27/01	36.79	311.22	274.43	MW
	05/08/01	35.47	311.22	275.75	MW
1349MW03	08/26/02	28.63	300.54	271.91	MW
	05/28/02	26.64	300.54	273.90	MW
	03/04/02	25.20	300.54	275.34	MW
	11/26/01	30.67	300.54	269.87	MW
	08/27/01	29.65	300.54	270.89	MW
	05/08/01	26.56	300.54	273.98	MW
1349MW03R	06/04/07	26.64	304.13	277.49	MW
	02/26/07	24.66	304.13	279.47	MW
	12/04/06	26.50	304.13	277.63	MW
	08/14/06	24.67	304.13	279.46	MW
	05/22/06	20.40	304.13	283.73	MW
	03/06/06	22.56	304.13	281.57	MW
	11/28/05	29.81	304.13	274.32	MW
	08/29/05	28.52	304.13	275.61	MW
	05/23/05	25.29	304.13	278.84	MW
	03/14/05	23.29	304.13	280.84	MW
	12/13/04	32.69	304.13	271.44	MW
	08/09/04	30.88	304.13	273.25	MW
	05/24/04	29.40	304.13	274.73	MW
	03/08/04	28.43	304.13	275.70	MW
	12/01/03	33.33	304.13	270.80	MW
	08/11/03	31.69	304.13	272.44	MW
	06/02/03	30.48	304.13	273.65	MW
1349MW100	06/04/07	27.73	309.60	281.87	MW
	02/26/07	26.81	309.60	282.79	MW
	12/04/06	28.01	309.60	281.59	MW
	08/14/06	25.37	309.60	284.23	MW
	05/22/06	22.79	309.60	286.81	MW
	03/06/06	25.73	309.60	283.87	MW
	11/28/05	31.42	309.60	278.18	MW
	08/29/05	30.12	309.60	279.48	MW
	05/23/05	28.03	309.60	281.57	MW
	03/14/05	29.70	309.60	279.90	MW

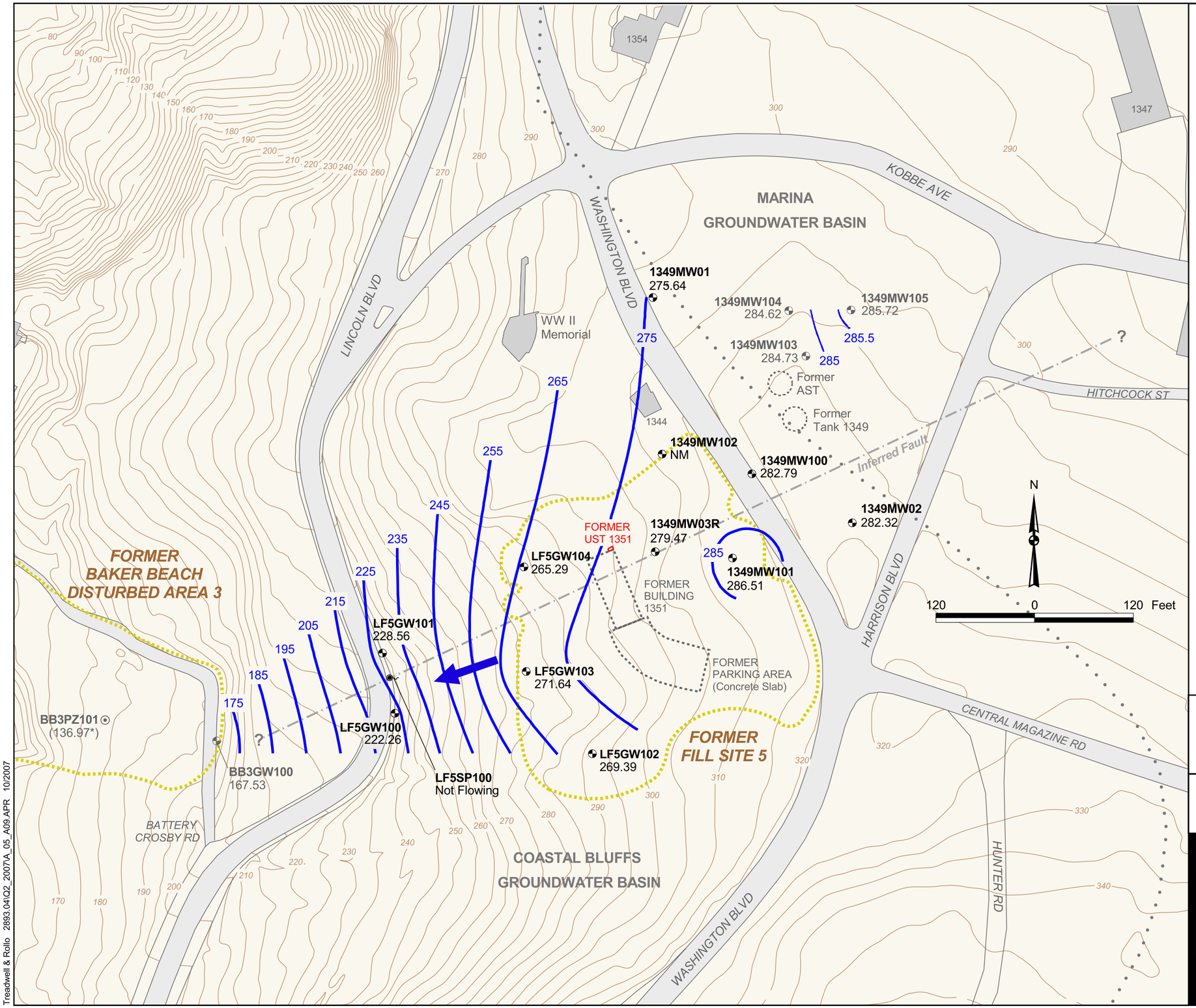
A-9-8
Groundwater Elevation Summary
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1349MW100	12/13/04	34.85	309.60	274.75	MW
	08/09/04	33.11	309.60	276.49	MW
	05/24/04	32.05	309.60	277.55	MW
	03/08/04	31.63	309.60	277.97	MW
	12/01/03	34.42	309.60	275.18	MW
	08/11/03	32.98	309.60	276.62	MW
	06/02/03	32.75	309.60	276.85	MW
	03/10/03	33.30	309.60	276.30	MW
	12/02/02	34.67	309.60	274.93	MW
1349MW101	06/04/07	26.66	311.63	284.97	MW
	02/26/07	25.12	311.63	286.51	MW
	12/04/06	27.49	311.63	284.14	MW
	08/14/06	22.75	311.63	288.88	MW
	05/22/06	19.51	311.63	292.12	MW
	03/06/06	24.59	311.63	287.04	MW
	11/28/05	31.66	311.63	279.97	MW
	08/29/05	30.78	311.63	280.85	MW
	05/23/05	28.65	311.63	282.98	MW
	03/14/05	23.87	311.63	287.76	MW
	12/13/04	33.44	311.63	278.19	MW
	08/09/04	32.10	311.63	279.53	MW
	05/24/04	32.23	311.63	279.40	MW
	03/08/04	32.90	311.63	278.73	MW
	12/01/03	35.25	311.63	276.38	MW
	08/11/03	34.14	311.63	277.49	MW
	06/02/03	33.59	311.63	278.04	MW
1349MW102	06/04/07	NM	305.68	NM	MW
	02/26/07	NM	305.68	NM	MW
	12/04/06	covered	305.68	NM	MW
	08/14/06	17.90	305.68	287.78	MW
	05/22/06	15.12	305.68	290.56	MW
	03/06/06	19.66	305.68	286.02	MW
	11/28/05	25.02	305.68	280.66	MW
	08/29/05	23.67	305.68	282.01	MW
	05/23/05	23.33	305.68	282.35	MW
	03/14/05	23.95	305.68	281.73	MW
	12/13/04	28.35	305.68	277.33	MW
	08/09/04	26.89	305.68	278.79	MW
	05/24/04	25.68	305.68	280.00	MW
	03/08/04	25.62	305.68	280.06	MW
	12/01/03	28.17	305.68	277.51	MW
	08/11/03	26.96	305.68	278.72	MW
	06/02/03	26.51	305.68	279.17	MW
1349MW103	06/04/07	33.76	318.07	284.31	MW
	02/26/07	33.34	318.07	284.73	MW
	12/04/06	33.11	318.07	284.96	MW
	08/14/06	31.11	318.07	286.96	MW
	05/22/06	30.57	318.07	287.50	MW
	03/06/06	32.97	318.07	285.10	MW
	11/28/05	37.30	318.07	280.77	MW

A-9-8
Groundwater Elevation Summary
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1349MW103	08/29/05	36.04	318.07	282.03	MW
	05/23/05	34.70	318.07	283.37	MW
	03/14/05	37.18	318.07	280.89	MW
	12/13/04	40.93	318.07	277.14	MW
	08/09/04	39.49	318.07	278.58	MW
	05/24/04	38.40	318.07	279.67	MW
	03/08/04	38.75	318.07	279.32	MW
	12/01/03	40.69	318.07	277.38	MW
1349MW104	06/04/07	30.57	314.58	284.01	MW
	02/26/07	29.96	314.58	284.62	MW
	12/04/06	30.74	314.58	283.84	MW
	08/14/06	28.19	314.58	286.39	MW
	05/22/06	24.50	314.58	290.08	MW
	03/06/06	29.33	314.58	285.25	MW
	11/28/05	34.07	314.58	280.51	MW
	08/29/05	32.83	314.58	281.75	MW
	05/23/05	31.42	314.58	283.16	MW
	03/14/05	33.73	314.58	280.85	MW
	12/13/04	37.65	314.58	276.93	MW
	08/09/04	36.23	314.58	278.35	MW
	05/24/04	35.18	314.58	279.40	MW
	03/08/04	35.76	314.58	278.82	MW
	12/01/03	37.43	314.58	277.15	MW
1349MW105	06/04/07	26.35	312.05	285.70	MW
	02/27/06	26.33	312.05	285.72	MW
	12/04/06	26.88	312.05	285.17	MW
	08/14/06	24.38	312.05	287.67	MW
	05/22/06	24.60	312.05	287.45	MW
	03/06/06	27.94	312.05	284.11	MW
	11/28/05	31.15	312.05	280.90	MW
	08/29/05	30.78	312.05	281.27	MW
	05/23/05	31.54	312.05	280.51	MW
	03/14/05	33.25	312.05	278.80	MW
	12/13/04	34.71	312.05	277.34	MW
	08/09/04	33.33	312.05	278.72	MW
	05/24/04	33.20	312.05	278.85	MW
	03/08/04	33.71	312.05	278.34	MW
	12/01/03	34.38	312.05	277.67	MW

Notes
1 - All depth to water measurements are an average of three measurements recorded in the field.
MW - monitoring well
feet PLLW - feet above Presidio Lower Low Water vertical datum
NM - Not measured



LEGEND

LF5GW101 228.56	Groundwater Monitoring Well February 2007 Groundwater Elevation
NM	Not Measured.
LF5SP100	Approximate Surface Water Sample Location
1349MW103 284.73	Adjacent Study Area Well February 2007 Groundwater Elevation
BB3PZ101 (136.97*)	Adjacent Study Area Piezometer February 2007 Groundwater Elevation
(136.97*)	Dry Well. Value Indicates Bottom of Casing Elevation in Feet PLLW
	Approximate Direction of Groundwater Flow
	Groundwater Contours (Contour Interval : 10 ft) (Contour Interval : 0.5 ft)
	Former Fill Site 5 and Baker Beach Disturbed Area 3 Excavation Boundaries
	Inferred Fault
	Groundwater Basin Boundary
	Topographic Contour (Contour Interval : 5 ft)
1344	Building and Number

Notes:
Groundwater elevation data collected on 26 February 2007.

AST - Above ground Storage Tank
UST - Underground Storage Tank

Location of inferred fault from Revised Feasibility Study Main Installation Sites (EKI, 2003).

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

FILL SITE 5 SITE PLAN AND 26 FEBRUARY 2007 GROUNDWATER ELEVATION MAP

Treadwell&Rollo

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October 2007

FIGURE A-9-1

Treadwell & Rollo 2893.04\Q2_2007\A_05_A09.APR 10/2007

BUILDING 231/207 AREA
APPENDIX SECTION A-10
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2007
Presidio of San Francisco, California

1.0 INTRODUCTION AND BACKGROUND

The Building 231/207 Area is located in the northeast portion of the Presidio (Figure 1). The site elevation ranges from approximately 10 to 30 feet above PLLW datum.

Building 231 was built in 1950 and operated as an automobile service station for privately owned vehicles (Figure A-10-1). Building 231 was in operation until mid-1995 as an auto shop and tire store that performed a variety of automobile services. Building 228, located within the Building 231/207 Area, operated as a dry cleaner for an unknown period of time between 1950 and 1973 (Dames and Moore, 1995). Building 207 was the exchange service station and has a history of oil, fuel and gasoline station use (Harding ESE, 2003).

Samples have been collected from wells at the Building 231/207 Area since July 1993 and have been analyzed for general chemistry parameters, TPH, VOCs, and 23 dissolved metals. Groundwater samples were collected at some well locations prior to 1993, and the analytical data for that work is available in the RI Report (Dames & Moore, 1997). A summary of analytical results can be found in Tables A-10-1 through A-10-6 in this section.

The *Second Redlined Recommended Final Building 231/207 Area Corrective Action Plan* (CAP) (MACTEC, 2007b), which documents the evaluation and selection of cleanup alternatives for soil and groundwater contamination at the site has recently been prepared. The CAP is discussed in greater detail in Section 3.0.

The well box elevations of monitoring wells and piezometers 231GW21, 231GW22, 231PZ03, and 231PZ04 were surveyed as part of the Data Gaps Investigation (MACTEC, 2004). The survey results presented in Table C.1 of the *Data Gaps Investigation Report* were subsequently determined to be incorrect due to a surveying error. The top of casing elevations presented in this report were not affected by this surveying error and are correct.

To evaluate changing redox conditions, pH, temperature and ORP were added to the program in the First Quarter 2006. The *Technical Memorandum, Evaluation of Arsenic and Other Metals in Groundwater at Three Corrective Action Plan Sites, Presidio of San Francisco, San Francisco, California* (MACTEC, 2006), concluded that ORP is a good indicator for evaluating changing redox conditions. The First Quarter 2006 pH, temperature and ORP data are presented in Table A-10-1 and will be used in the ongoing redox evaluations at CAP sites.

2.0 SITE DESCRIPTION AND GEOLOGY

The Building 231/207 Area is in the northeast portion of the Presidio on the border of the Northeastern and Crissy Field Groundwater Areas, both located within the Marina Groundwater Basin (Figure 1). Subsurface materials beneath the Building 231/207 Area consist of artificial debris fill, fine-grained estuarine deposits, and sand deposits. Groundwater studies conducted in the Building 231/207 Area identified three distinct water-bearing zones, designated as the shallow, intermediate, and deep zones. These three sandy water-bearing zones are separated by two less permeable clayey fine grained estuarine deposits (Harding ESE, 2003). The shallow zone exhibits unconfined conditions and extends to approximately 15 feet bgs. The intermediate zone is semi-confined and extends from approximately 15 to 25 feet bgs. The deep, confined zone extends from approximately 25 to 85 feet bgs. Groundwater has been reported to flow northward towards the San Francisco Bay (Montgomery Watson, 1997a).

3.0 BUILDING 207/231 AREA CAP

The CAP (Mactec, 2007b) was submitted to all stakeholders for public review on 8 August 2007. The following chemicals were identified by the CAP as chemicals of concern in soil: TPHg, TPHd, TPHfo, VOCs (BTEX, MTBE, PCE, TCE, bromobenzene, vinyl chloride, and methylene chloride), PAHs (acenaphthylene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, fluoranthene, phenanthrene, and pyrene), metals (arsenic, chromium, cobalt, lead, mercury, nickel, silver, and zinc), pesticides (4,4'-DDD), and PCBs (Arochlor 1016). Additionally, the following chemicals were identified by the CAP as chemicals of concern in groundwater; TPHg, TPHd, TPHfo, VOCs (BTEX, MTBE, bromobenzene, 1,2-DCA, PCE, TCE, and vinyl chloride), PAHs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(b)fluoranthene, benzo(k)fluoranthene, and chrysene, and indeno(1,2,3-cd)pyrene), metals (arsenic, lead, nickel, vanadium, and zinc), and PCBs (Arochlor 1016).

Based on cleanup level exceedances, five remedial units (RUs) or areas of contamination exceeding cleanup levels were identified, comprising seven areas of petroleum-related soil contamination and four areas of groundwater contamination.

The CAP recommends *Excavation and Offsite Disposal of Soil, and Groundwater Monitoring* as the preferred corrective action alternative for all RUs except the Historic Building 228 Area. The CAP recommends *Capping, Land Use Controls, In Situ Groundwater Treatment, and Groundwater Monitoring* as the preferred corrective action alternative for Historic Building 228 Area. This corrective action will be implemented by summer 2008, as detailed in the CAP (Mactec, 2007b).

Groundwater sampling at the Building 207/231 Area will be conducted in accordance with the CAP following CAP approval and implementation. Current and historical groundwater sampling

results are summarized in Table A-10-1 through A-10-6. Cleanup levels proposed in the CAP are presented in Tables A-10-2, A-10-3 and A-10-6.

4.0 GROUNDWATER MONITORING

The Building 231/207 Area groundwater monitoring program includes 27 monitoring wells and piezometers (Figure A-10-1). The monitoring wells associated with the Building 231/207 Area are screened within three distinct water-bearing units designated as the shallow, intermediate, and deep zones. During the First and Second Quarters 2007, groundwater elevation measurements were collected at all 27 wells and piezometers.

Only one monitoring well (231GW09) was sampled at the Building 231/207 Area during the First Quarter 2007, in accordance with Table 1A. The recommended final CAP for the Building 231/207 Area proposed monitoring to be conducted on an annual basis during the First Quarter 2007. Monitoring of 231/207 wells is required at least two months prior to the start of the remedial action for the Building 231/207 Area in order to establish a baseline of pre-construction TPH and arsenic data (was anticipated to occur during the Second Quarter 2007), in accordance with the CAP. Therefore, the annual sampling for Building 231/207 was postponed until Second Quarter 2007. During Second Quarter 2007, 26 monitoring wells and piezometers were sampled, in accordance with Table 1B. Deep piezometer OW-1 was not proposed for sampling during either the First or Second Quarters 2007.

4.1 Groundwater-Level Measurements and Interpretation

Groundwater elevation measurements were collected at all site wells and piezometers for the First Quarter on 26 February 2007 and for the Second Quarter on 4 June 2007. Groundwater elevations are presented in Table A-10-7. Water-level meters were calibrated on 26 February and 6 June 2007. The calibration logs can be found in Appendix B. Groundwater elevation field forms can be found in Appendix C.

During the First and Second Quarters 2007, the shallow, intermediate, and deep groundwater elevations measured within Building 231/207 monitoring wells were generally within the range of historical elevations measured at the site. The overall groundwater flow direction and gradients associated with the Building 231/207 Area are consistent with previous events.

4.1.1 Shallow Groundwater

During the First Quarter 2007, shallow zone groundwater elevations ranged from 5.18 to 11.11 feet above PLLW in monitoring wells 231GW16 and 231GW09, respectively (Figure A-10-2). During the Second Quarter 2007, shallow zone groundwater elevations ranged from 5.35 to 10.87 feet above PLLW in monitoring wells 231GW16 and 231GW09, respectively (Figure A-10-3). Groundwater elevation measurements at the Building 231/207 Area shallow

monitoring wells were evaluated with measurements collected at Building 1065/1027 and Fill Site 6 shallow monitoring wells to better understand groundwater flow direction and gradients in this area. Groundwater elevation data for these adjacent sites can be found in Tables A-11-7 and A-3-6.

During the First and Second Quarters 2007, the shallow aquifer groundwater flow direction in the Building 231/207 Area was north-northwest towards the San Francisco Bay following the general topography (Figures A-10-2 and A-10-3). The shallow groundwater gradient in the vicinity of Building 231 was calculated to be approximately 0.010 and 0.015 during the First and Second Quarters 2007, respectively. Groundwater gradients and flow directions remain consistent with previous findings at the site.

4.1.2 Intermediate Groundwater

During the First Quarter 2007, intermediate zone groundwater elevations ranged from 6.07 to 9.90 feet above PLLW in monitoring wells 207GW03 and 231GW27, respectively (Figure A-10-4). During the Second Quarter 2007, intermediate zone groundwater elevations ranged from 5.48 to 9.54 feet above PLLW in monitoring wells 207GW03 and 231GW18, respectively (Figure A-10-5).

Groundwater elevation measurements at the Building 231/207 intermediate aquifer monitoring wells were evaluated with Building 1065/1027 intermediate aquifer monitoring wells to better understand groundwater flow direction and gradient in the intermediate aquifer. These groundwater level data can be found in Table A-11-7. During the First and Second Quarters 2007, the intermediate aquifer groundwater flow direction in the Building 231/207 and Building 1065/1027 Areas was generally north-northwesterly, towards the San Francisco Bay following the general topography (Figures A-10-4 and A-10-5). However, a slight depression in the potentiometric surface was present east of Building 231. During the First and Second Quarters 2007, the average intermediate groundwater gradient was calculated in the vicinity of Building 231 to be approximately 0.008 feet per foot. Groundwater gradients and flow directions remain consistent with previous findings.

4.1.3 Deep Groundwater

During the First Quarter 2007, deep zone groundwater elevations ranged from 11.08 within monitoring wells 231GW13 and 231GW17 to 11.13 feet above PLLW in monitoring well 231GW20 (Figure A-10-6). During the Second Quarter 2007, deep zone groundwater elevations ranged from 10.76 to 10.90 feet above PLLW in monitoring wells 231GW13 and 231GW17, respectively (Figure A-10-7). Groundwater flow direction in the deep aquifer was north-northwesterly towards San Francisco Bay during the First Quarter 2007 and north-northeasterly during the Second Quarter 2007 (Figures A-10-6 and A-10-7). The groundwater gradient within the deep aquifer was calculated to be approximately 0.001 feet per foot during the First Quarter

2007 and 0.0005 feet per foot during the Second Quarter 2007. The deep groundwater flow direction has typically ranged from northeasterly to northwesterly since 2001.

4.1.4 Vertical Gradients

Building 231/207 Area vertical gradient estimates are presented in Table A-10-8. Vertical groundwater gradients were calculated for four well clusters, WC-1, WC-2, WC-3, and WC-4 during the First and Second Quarters 2007. Clusters WC-1, WC-2, and WC-3 each have piezometers screened within the three distinct water-bearing zones. Cluster WC-4 has piezometers screened within the shallow and intermediate water-bearing zones. A description of which piezometers are contained in each well cluster can be found in Table A-10-8. Upward (negative) vertical gradients were determined to be present between all groundwater zones at all well clusters, except between the shallow and intermediate zones within well cluster WC-4, during the First and Second Quarters 2007. The vertical gradient between the shallow and intermediate zones within well cluster WC-4 was calculated to be zero during the First Quarter 2007 and slightly upward during the Second Quarter 2007. Both upward and downward vertical gradients have historically been measured in well cluster WC-4.

4.2 Groundwater Purging and Sampling

During the First Quarter 2007, monitoring well 231GW09 was the only location proposed for sampling. Monitoring well 231GW09 was purged and sampled on 27 February 2007. Monitoring well 231GW09 is sampled to serve as a downgradient well for Fill Site 6A. During the Second Quarter 2007, 26 Building 231/207 monitoring wells and piezometers were purged and sampled between 5 and 8 June 2007. All purging and sampling was conducted in accordance with methods shown in Tables 1A and 1B and procedures described in the FSP (Treadwell & Rollo, 2001a).

All samples were collected using methods shown in Tables 1A and 1B and in accordance with procedures described in the FSP (Treadwell & Rollo, 2001a).

Purging equipment, purging volumes, purge water parameters, and sampling equipment for each monitoring well are described in the purge records at the conclusion of this section. Purge water was stored for future disposal in one of two 2,800-gallon aboveground polyethylene storage tanks, which are located at the Central Magazine.

4.3 Groundwater Analytical Program

All groundwater samples were submitted to the project laboratory for the analyses shown in Tables 1A and 1B of the main text. The appropriate sampling containers, preservatives, and maximum holding times for each analytical method are shown in Table 5. Sample containers used for each well are described in the purge records located at the conclusion of this section.

QA/QC samples were collected as part of this program. Section 6.2 of the main text discusses the QA/QC sampling and analysis performed for the First and Second Quarters 2007.

5.0 GROUNDWATER ANALYTICAL RESULTS

Groundwater samples collected from the Building 231/207 Area monitoring well 231GW09 were analyzed for general chemistry parameters, 22 dissolved metals, TDS, dissolved oxygen, and total sulfides during the First Quarter 2007.

Groundwater samples collected during the Second Quarter 2007 at the Building 231/207 Area were analyzed for general chemistry parameters, 14 and 22 dissolved metals, TDS, dissolved oxygen, VOCs, MTBE, total sulfides, TPHg, TPHd, and TPHfo. Additionally, redox (pH, ORP and temperature) parameters were measured within wells sampled during the First and Second Quarters 2007.

The TPHfo standard currently being used is a TPHmo standard, as defined by the Presidio QAPP, with a carbon range of C_{24} to C_{36}. Section 5.4.3.1 in the main report discusses the data compatibility issues associated with TPH analyses.

The analytical results associated with Fill Site 6A parameters are presented and discussed in Appendix A, Section A-3. Building 231/207 Area analytical results are presented in Tables A-10-1 through A-10-6. ORP, pH, and temperature were measured in the field and results are presented in Table A-10-1.

5.1 General Chemistry Results

Table A-10-1 summarizes the results of general chemistry analysis within the Building 237/207 Area.

The following table summarizes new high and low general chemistry analytical results for the First and Second Quarters 2007 within the Building 231/207 Area when compared to historical data, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the date of commencement of sampling, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2007		Units
			Minimum	Maximum	Minimum	Maximum	
General Chemistry							
207GW03	Fluoride	3/3	0.29	0.29	--	0.3	mg/L
	Sulfide	3/3	2.5	3.4	2.2	--	mg/L
231GW10	Fluoride	3/3	0.35	0.37	--	0.4	mg/L
231GW11	Fluoride	3/3	0.15	0.15	0.11	--	mg/L
	N as Nitrite	1/3	<0.05	<0.05	--	0.08	mg/L
231GW13	Alkalinity, Total	14/14	272	434	--	480	mg/L
	Bicarbonate	14/14	269	434	--	480	mg/L
	Chloride	14/14	58.8	184	--	220	mg/L
	Fluoride	4/4	0.45	0.51	--	0.61	mg/L
231GW15	Fluoride	2/3	<0.1	0.11	--	0.12	mg/L
	N as Nitrite	1/3	<0.05	<0.05	--	0.15	mg/L
231GW19	Fluoride	3/3	0.17	0.17	--	0.22	mg/L
231GW20	Alkalinity, Total	13/13	78	232	52	--	mg/L
	Bicarbonate	13/13	78	584	52	--	mg/L
	Chloride	13/13	16	67	9.6	--	mg/L
	Sulfate	13/13	9.6	26.7	8.8	--	mg/L
231GW21	Fluoride	6/7	0.2	<1	0.19	--	mg/L
231GW22	Chloride	13/13	57	141	54	--	mg/L
	Fluoride	5/5	0.24	0.26	--	0.28	mg/L
231GW23	Alkalinity, Total	11/11	299	510	--	580	mg/L
	Bicarbonate	11/11	299	510	--	580	mg/L
	Fluoride	3/3	0.31	0.34	--	0.37	mg/L
231GW25	Alkalinity, Total	11/11	246	800	--	830	mg/L
	Bicarbonate	11/11	246	800	--	830	mg/L
	Sulfate	9/11	0.8	73.1	<0.5	--	mg/L
231GW26	Chloride	11/11	44	101	36	--	mg/L
	N as Nitrate	11/11	2.2	6.39	--	6.6	mg/L
	Sulfate	11/11	62.5	89	49	--	mg/L
231GW28	Alkalinity, Total	11/11	170	320	--	360	mg/L
	Bicarbonate	11/11	170	320	--	360	mg/L
	Fluoride	3/3	0.27	0.27	0.22	--	mg/L
231GW29	Chloride	13/13	52.6	86.2	49	--	mg/L
231PZ03	Fluoride	3/3	0.21	0.21	--	0.27	mg/L
231PZ04	Fluoride	3/3	0.24	0.24	--	0.28	mg/L
	Sulfide	2/3	<0.04	0.06	--	0.07	mg/L

The new high and low concentrations from the First and Second Quarters 2007 are only slightly outside of historical ranges, can be attributed to natural fluctuations, and are therefore, not considered significant.

5.2 Dissolved Oxygen

Table A-10-2 summarizes dissolved oxygen measurements. Dissolved oxygen was measured at a concentration of 0.37 mg/L within monitoring well 231GW09 during the First Quarter 2007. Dissolved oxygen concentrations measured during the Second Quarter 2007 ranged from 0.13 to 2.84 mg/L in wells 231GW28 and 231GW09, respectively. Dissolved oxygen concentrations were within historical ranges in the majority of Building 231/207 Area monitoring wells and piezometers during the Second Quarter 2007. Dissolved oxygen was detected at a new low concentration of 0.28 mg/L within 231GW17 during the Second Quarter 2007.

5.3 TPH Results

No samples were analyzed for TPH during the First Quarter 2007. Table A-10-2 summarizes the TPH results and Figure A-10-8 presents shallow groundwater concentrations for the Building 237/207 Area during the Second Quarter 2007.

TPHg was also detected in the samples from 231GW21, 231GW22, 231GW28, and 231PZ01 through 231PZ04 within historical ranges for shallow groundwater during the Second Quarter 2007. TPHg was detected in the sample from 231GW21 at a concentration of 4,100. TPHg was detected in the sample collected from 231GW22 at a concentration of 11,000. TPHg concentrations within 231GW21 and 231GW22 continue to fluctuate within historical bounds. TPHg was detected during the Second Quarter 2007 at concentrations of 13,000, 840, 4,900, and 5,200 µg/L within piezometers 231PZ01, 231PZ02, 231PZ03, and 231PZ04, respectively. All concentrations detected within these piezometers are within the historical range. The TPHg concentrations detected within 231GW21, 231GW22, and 231PZ01 through 231PZ04 were all in excess of the CAP-specified cleanup level of 443 µg/L.

TPHg was detected at a new high concentration of 53 µg/L within intermediate well 231GW28 during the Second Quarter 2007. This is only the second detection within this well and it is only slightly higher than the previous high concentration of 51 µg/L and the laboratory reporting limit of 50 µg/L.

TPHd was detected within 231GW21, 231GW22, and 231GW30 at concentrations of 180, 210, 70 µg/L, respectively. TPHd was detected within piezometers 231PZ01 through 231PZ04 at concentrations of 430, 100, 160, and 190 µg/L, respectively. No detected concentrations of TPHd exceeded the applicable cleanup level of 443 µg/L during the Second Quarter 2007.

TPHfo was not detected in any samples collected from Building 231/207 Area monitoring wells or piezometers during the Second Quarter 2007.

In accordance with RWQCB Order No. R2-2003-0080, 2007 TPHg analytical results for shallow groundwater are presented on Figure A-10-8 (an approximate TPHg freshwater protection zone screening level contour (443 µg/L)).

5.4 VOC, BTEX, and MTBE Results

A summary of VOC analytical results is presented in Table A-10-3 and BTEX and MTBE results for shallow groundwater in the Second Quarter 2007 are shown on Figure A-10-8. Samples were not analyzed for VOCs during the First Quarter 2007.

The following table summarizes new high and low VOC analytical results for the Second Quarter 2007 within the Building 231/207 Area when compared to historical data, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the date sampling commenced, and the number of duplicate analyses performed. Only the new high or new low concentrations are shown.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2007		Units
			Minimum	Maximum	Minimum	Maximum	
Volatile Organic Compounds							
231GW26	Benzene	7/22	0.1	0.6	0.06	--	µg/L
231GW27	Benzene	2/26	0.1	<1	0.04	--	µg/L
231PZ01	Ethylbenzene	19/19	150	4,100	130	--	µg/L

The majority of VOC detections during the Second Quarter 2007 at Building 231/207 were within historical ranges with the exception of new low benzene concentrations at 231GW26 and 231GW27 and a new low ethylbenze level at 231PZ01. VOC concentrations detected in excess of CAP-specified cleanup levels are discussed below.

- Benzene was detected in excess of the CAP-specified cleanup level of 1 µg/L in 231GW21, 231GW22, and 231PZ01 through 231PZ04 (Table A-10-3 and Figure A-10-8).
- Ethylbenzene was detected in excess of the CAP-specified cleanup level of 43 µg/L in 231GW22 and 231PZ01 (Table A-10-3 and Figure A-10-8).
- Total xylenes were detected in excess of the CAP-specified cleanup level of 130 µg/L in 231GW22 (Table A-10-3 and Figure A-10-8).

In addition to the above mentioned VOC compounds, chloroform, MTBE, and toluene were also detected in Building 231/207 Area monitoring wells. The detected concentrations of these compounds were within historical ranges and were also below CAP-specified cleanup levels.

VOC concentrations within Building 231/207 Area monitoring wells and piezometers are relatively stable.

5.5 Dissolved Metals and TDS Results

Dissolved metals results are presented in Table A-10-6. The table below summarizes new high and low dissolved metal results for the First and Second Quarter 2007 within Building 231/207 Area monitoring wells and piezometers when compared to historical data, and provides the range and frequency of historical results (Table A-10-6). The total number of analyses may vary depending on the sampling frequency, the date sampling commenced, and on the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2007		Units
			Minimum	Maximum	Minimum	Maximum	
Metals							
207GW03	Calcium	4/4	20,000	21,800	14,000	--	µg/L
	Magnesium	4/4	35,000	36,700	31,000	--	µg/L
231GW06	Arsenic	4/4	5.52	7.2	--	7.6	µg/L
	Sodium	4/4	58,000	65,000	46,000	--	µg/L
231GW09	Cadmium	1/24	<1	<1	0.09	--	µg/L
231GW10	Calcium	4/4	28,000	58,000	--	64,000	µg/L
	Iron	11/12	<100	15,000	--	16,000	µg/L
231GW11	Calcium	4/4	29,000	32,300	24,000	--	µg/L
	Iron	12/12	820	5,210	600	--	µg/L
	Manganese	12/12	78	246	74	--	µg/L
	Potassium	4/4	9,000	11,700	8,600	--	µg/L
231GW13	Arsenic	5/5	30.2	35	29	--	µg/L
	Copper	5/5	5.5	7.8	--	35	µg/L
	Magnesium	6/6	3,900	5,000	--	5,400	µg/L
	Zinc	1/4	<20	<20	--	33	µg/L
231GW15	Aluminum	1/4	<100	<100	--	450	µg/L
	Calcium	5/5	32,000	38,000	26,000	--	µg/L
	Copper	1/4	<1	<1	--	3.8	µg/L
	Iron	7/13	<50	600	--	1,500	µg/L
231GW16	Magnesium	4/4	29,300	37,000	--	39,000	µg/L
	Potassium	4/4	14,000	16,000	--	17,000	µg/L
	Sodium	4/4	150,000	220,000	--	270,000	µg/L
231GW17	Chromium	4/4	19	20	18	--	µg/L
	Magnesium	5/5	37,000	49,000	--	50,000	µg/L
	Potassium	4/5	760	<5,000	640	--	µg/L
231GW18	Magnesium	5/5	46,000	55,000	--	59,000	µg/L
231GW19	Arsenic	4/4	8.2	9.2	--	18	µg/L
	Copper	1/4	<1	<1	--	1.1	µg/L
	Iron	13/13	1,740	15,100	--	16,000	µg/L
	Manganese	12/12	267	792	--	970	µg/L

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2007		Units
			Minimum	Maximum	Minimum	Maximum	
Metals							
	Potassium	4/5	4,300	6,000	--	8,000	µg/L
231GW20	Cadmium	1/4	<1	<1	--	1.6	µg/L
	Copper	3/5	<1	2.8	--	4.3	µg/L
	Magnesium	6/6	9,100	42,900	3,800	--	µg/L
	Sodium	6/6	14,000	46,100	8,400	--	µg/L
	Total Dissolved Solids	13/13	220	397	42	--	mg/L
231GW21	Sodium	9/9	47,000	93,000	46,000	--	µg/L
231GW22	Arsenic	7/7	23.6	31	--	33	µg/L
231GW23	Arsenic	3/4	<5	6.1	--	7.6	µg/L
	Iron	11/11	4,100	25,000	--	31,000	µg/L
	Magnesium	4/4	52,000	66,000	--	73,000	µg/L
	Manganese	11/11	1,550	2,200	--	2,500	µg/L
	Sodium	4/4	57,700	63,000	--	68,000	µg/L
	Total Dissolved Solids	11/11	370	600	--	660	mg/L
231GW24	Arsenic	2/4	4.19	<5	--	5.9	µg/L
	Iron	11/11	682	2,080	--	3,500	µg/L
	Magnesium	4/4	39,000	43,100	--	50,000	µg/L
	Sodium	4/4	42,000	45,000	--	49,000	µg/L
231GW25	Arsenic	4/4	14	14.2	--	15	µg/L
	Copper	1/4	<1	<1	--	1.7	µg/L
	Iron	11/11	1,660	29,000	--	31,000	µg/L
	Magnesium	4/4	58,000	66,000	--	67,000	µg/L
	Sodium	4/4	120,000	150,000	--	160,000	µg/L
231GW26	Calcium	4/4	27,000	31,000	21,000	--	µg/L
	Magnesium	4/4	43,000	47,000	39,000	--	µg/L
	Potassium	3/4	1,600	<5,000	1,300	--	µg/L
	Sodium	4/4	56,700	67,000	44,000	--	µg/L
231GW28	Arsenic	3/4	5.01	6.3	<5	--	µg/L
	Magnesium	4/4	31,600	36,000	--	38,000	µg/L
231GW29	Cadmium	1/5	<1	<1	0.13	--	µg/L
	Calcium	6/6	28,000	29,000	27,000	--	µg/L
	Copper	1/6	<1	<1	0.6	--	µg/L
	Magnesium	6/6	54,000	58,000	53,000	--	µg/L
	Nickel	1/6	<5	<20	2.9	--	µg/L
	Sodium	6/6	47,000	51,000	46,000	51,400	µg/L
231GW30	Arsenic	4/4	6.8	7.2	--	15	µg/L
	Iron	11/11	692	6,150	--	12,000	µg/L
231PZ03	Arsenic	2/4	2.31	<5	--	8.5	µg/L
	Calcium	4/4	42,100	85,000	--	99,000	µg/L
	Iron	8/8	265	16,000	--	20,000	µg/L
	Magnesium	4/4	43,500	54,000	--	61,000	µg/L
231PZ04	Arsenic	4/4	6.64	10	--	12	µg/L
	Potassium	3/4	<5,000	6,000	--	8,000	µg/L

The majority of the new high or low detections were only slightly higher or lower than previous highs and lows or are the result of the relatively few groundwater samples collected for certain metals and are not considered significant. Significant dissolved metals detections are discussed below.

- During the First Quarter 2007, dissolved metal concentrations detected within primary and duplicate samples from 231GW09 were within historical ranges and no metal concentrations were detected above CAP-specified cleanup levels. The QC duplicate sample collected from 231GW09 had several dissolved metals detected for the first time due to lower laboratory reporting limits. These detections were all below CAP-specified cleanup levels, with the exception of dissolved nickel at a concentration of 17.4 µg/L, which exceeds its CAP-specified cleanup level of 8.2 µg/L.

- During the Second Quarter 2007, dissolved aluminum was detected for the first time at a concentration of 450 µg/L within well 231GW15. This is the first time dissolved aluminum has been detected within this well. In addition to dissolved aluminum, dissolved iron was also detected at a new high concentration (1,500 µg/L) within this well. The presence of dissolved aluminum and iron in groundwater is indicative of filter breakthrough during sampling. The TDS concentration detected within this sample is within historical ranges and a review of the purge record for this sample does not indicate a reason for these elevated concentrations. Future monitoring results from 231GW15 will be evaluated for similar trends.

- During the Second Quarter 2007, dissolved arsenic was detected above the CAP-specified cleanup level (10 µg/L) in samples from wells 231GW13 (primary and duplicate samples), 231GW21, 231GW22, 231GW25, and 231PZ01. Dissolved arsenic was detected above the cleanup level for the first time in groundwater from 231GW19, 231GW30, and 231PZ04. Additionally, dissolved arsenic was detected at the CAP-specified cleanup level in well 231GW10.

- During the Second Quarter 2007, dissolved cadmium was detected at a new high concentration of 1.6 µg/L within monitoring well 231GW20. This is the first time dissolved cadmium has been detected at this location. The detected concentration exceeds the CAP-specified cleanup level of 1.0 µg/L.

- During the Second Quarter 2007, dissolved copper was detected in the primary and duplicate samples from well 231GW13 at concentrations of 7.4 and 35 µg/L, respectively. The duplicate sample result was a new high concentration for this well and both primary and duplicate samples exceeded the CAP-specified cleanup level of 2.9 µg/L. The RPD between the primary and duplicate sample concentrations failed the RPD 50% acceptance criteria at 130%. A review of laboratory documentation does not identify a reason for this discrepancy.

Dissolved copper was detected in the primary and duplicate samples from well 231GW20 at concentrations of 4.3 and 3.7 µg/L, respectively. The primary sample result was a new high concentration for this well and both primary and duplicate samples exceeded the CAP-specified cleanup level of 2.9 µg/L.

Dissolved copper was detected at new high concentrations of 3.8 and 1.7 µg/L within monitoring wells 231GW15 and 231GW25, respectively. This is the first time dissolved copper has been detected within these wells. The detected concentration in the 231GW15 sample exceeded the CAP-specified cleanup level of 2.9 µg/L.

- During the Second Quarter 2007, dissolved iron was detected in 231GW15 and 231GW30 at new high concentrations of 1,500 and 12,000 µg/L, respectively. These concentrations are twice the previous high concentrations for these locations.

- During the Second Quarter 2007, dissolved magnesium was detected at a new low concentration of 3,800 µg/L in the sample from deep well 231GW20. This concentration is almost three times lower than the previous low concentration.

- During the Second Quarter 2007, dissolved zinc was detected at a concentration of 33 µg/L within well 231GW13. This is the first time dissolved zinc has been detected within this well. This concentration does not exceed the CAP-specified cleanup level for zinc of 81 µg/L.

During the First Quarter 2007, TDS was detected in the primary, duplicate and QC samples from monitoring well 231GW09 at concentrations of 510, 490, and 500 mg/L. During the Second Quarter 2007, TDS was detected in all Building 231/207 Area groundwater samples at concentrations ranging from 42 mg/L (a new low level) in the primary sample from monitoring well 231GW20 to 1,130 mg/L in monitoring well 231GW16.

The remaining dissolved metal results were within historical ranges during the First and Second Quarters 2007 as shown in Table A-10-6.

6.0 GROUNDWATER REDOX EVALUATION

Several parameters were measured in the field and in the laboratory to help determine the redox state of groundwater at the Building 231/207 Area.

The Trust is has prepared a *Technical Memorandum: Arsenic and Other Metals in Groundwater at Three Corrective Action Sites, Presidio of San Francisco, California* (MACTEC, 2006). This technical memorandum discusses the reduction/oxidation (redox) state of groundwater at the Building 231/207 Area using data collected as part of the Presidio-wide Groundwater Monitoring Program. Groundwater redox parameter results collected during the First and Second Quarters

2007 were generally within the range of previously detected concentrations at the Building 231/207 Area.

Building 231/207 Area monitoring wells sampled during the First and Second Quarters 2007 had modified redox diagrams developed. The redox diagrams were generated for shallow, intermediate, and deep groundwater using the Sequence™ program and concentrations of dissolved oxygen, nitrate, manganese, iron, sulfate and methane and are plotted with dissolved arsenic concentrations on Figures A-10-9 through A-10-11, respectively. Each redox diagram consists of multiple axes, with each individual axis representing one of the above analytes. Each redox diagram is associated with one monitoring well location. The relative shape of each redox diagram represents an approximation of the redox state within the well studied. In general, the larger the polygon the more oxidizing the groundwater environment is at the well location, conversely, the smaller the polygon the more reducing the environment.

7.0 CONCLUSIONS & RECOMMENDATIONS

Monitoring well 231MW09 was the only monitoring well purged and sampled during the First Quarter 2007. All Building 231/207 Area monitoring wells and piezometers were sampled during the Second Quarter 2007.

The majority of detected analytes were within historical bounds during the First and Second Quarters 2007.

TPHg and TPHd concentrations downgradient of Building 231 continue to exceed cleanup levels and to fluctuate within historical bounds in Building 231/207 Area monitoring wells and piezometers. TPHfo was not detected in any sample collected from Building 231/207 Area monitoring wells or piezometers.

VOC concentrations within Building 231/207 Area monitoring wells and piezometers are relatively stable. Benzene was detected above its CAP-specified cleanup level within monitoring well 231GW22 and piezometers 231PZ01, 231PZ02, 231PZ03, and 231PZ04. Ethylbenzene was detected above its CAP-specified cleanup level within monitoring well 231GW22 and piezometer 231PZ01. Total xylenes were detected above their CAP-specified cleanup level within monitoring well 231GW22.

The majority of new high and low dissolved metal detections were only slightly higher or lower than previous highs and lows. However, some CAP specified cleanup levels were exceeded during the Second Quarter 2007. Dissolved arsenic concentrations continue to be detected above the CAP-specified cleanup level (10 µg/L), in a number of wells. Cadmium concentrations exceeded the CAP-specified cleanup level of 1.0 µg within monitoring well 231GW20. Dissolved copper was detected in the primary and duplicate samples from wells 231GW13 and 231GW20 in exceedance of the CAP-specified cleanup level of 2.9 µg/L. In addition, dissolved copper was detected at new high concentrations of 3.8 and 1.7 µg/L within monitoring wells

231GW15, and 231GW25, respectively. This is the first time dissolved copper has been detected within these wells. The detected copper concentration within 231GW15 exceeded the CAP-specified cleanup level.

Concentrations of TPH and BTEX continue to exceed cleanup levels and should continue to be monitored within Building 231/207 Area monitoring wells. At some locations relatively few groundwater samples have been collected for some dissolved metals and trends are not yet apparent.

The CAP for the Building 231/207 Area has recently been submitted to stakeholders for final review. Sampling at the Building 231/207 Area will continue on an annual basis until the CAP is implemented, which is currently scheduled to take place in the summer of 2008.

Table A-10-1
Results of General Chemistry Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
207GW03	06/08/07	460	460	160	0.3	< 0.05	< 0.05	1.9	2.2	237.00	7.80	14.20
(intermediate)	03/16/06	460	460	150	0.29	< 0.05	< 0.05	1.7	3.4 J-	-181.2	7.8	16.1
	04/12/05	390	390	120	0.29	< 0.05	< 0.05	2.7	2.5	NR	NR	NR
	01/11/99	411	411	150	NA	< 2	NA	< 25	NA	NR	NR	NR
	10/12/98	432	432	160	NA	< 0.2	NA	2.66	NA	NR	NR	NR
	07/09/98	450	450	184 D	NA	0.017	NA	4.03	NA	NR	NR	NR
	05/04/98	420	420	159 D	NA	0.063	NA	9.38	NA	NR	NR	NR
	01/29/97	235	235	56.1 D	NA	2.5 D	NA	62.3 D	NA	NR	NR	NR
231GW06	06/05/07	250	250	54	< 0.1	< 0.05	< 0.05	53	< 0.04	152.00	7.20	21.10
(intermediate)	03/15/06	220	220	50	< 0.1	< 0.05	< 0.05	47	< 0.04	236	6.7	18
	04/04/05	290	290	57	< 0.1	0.1	< 0.05	76	< 0.04 UJ	NR	NR	NR
	01/20/99	260	260	95	NA	3.39	NA	74	NA	NR	NR	NR
	10/20/98	256	256	81.1	NA	3.1	NA	72	NA	NR	NR	NR
	07/21/98	240	240	64.1 D	NA	3.17 D	NA	67.5 D	NA	NR	NR	NR
	04/23/98	240	240	62.6 D	NA	2.72 D	NA	62.2 D	NA	NR	NR	NR
	01/27/98	236	236	67.2 D	NA	3.67 D	NA	69.9 D	NA	NR	NR	NR
	10/22/97	227	227	66.9 D	NA	3.62	NA	70.4 D	NA	NR	NR	NR
	07/23/97	239	239	62.3 D	NA	3.69 D	NA	67.3 D	NA	NR	NR	NR
	04/23/97	238	238	63.6 D	NA	3.09 D	NA	67.1 D	NA	NR	NR	NR
	01/28/97	197	197	53.9 D	NA	22.5 D	NA	67 D	NA	NR	NR	NR
231GW09	06/05/07	250	250	40	< 0.1	17 J	< 0.05	70	< 0.04	84.0	6.61	17.30
(shallow)	02/27/07	240	240	38	< 0.1	14	< 0.05	67	< 0.04 R	161.0	6.80	15.20
DUP0227072C	02/27/07	240	240	38	< 0.1	15	< 0.05	66	< 0.04 R	NA	NA	NA
231GW09CL	02/27/07	227	NA	NA	< 0.2	15.5	< 0.1	62.4	< 0.4 UJ	NA	NA	NA
	12/05/06	230	230	38	< 0.1	14	< 0.05	66	< 0.04	188.3	6.7	18.3
DUP1205062B	12/05/06	240	240	37	< 0.1	14	< 0.05	66	< 0.04	--	--	--
231GW09CL	12/05/06	228	228	40	< 1 U	15	< 0.1 U	67.7	< 0.05	--	--	--
	08/15/06	220	220	38	< 0.1	12	< 0.05	64	< 0.04	163	6.6	17.5
	05/24/06	230	230	41	< 0.1	11	< 0.05	68	< 0.04 R	33.7	6.5	16.5
	03/15/06	110	110	22	< 0.1	4.6	< 0.05	35	< 0.04	204	6.22	16.2
	11/29/05	220 J+	220	48	< 0.1	6.6	< 0.05	75	< 0.04	NR	NR	NR
DUP1129052A	11/29/05	210 J+	210	48	< 0.1	6.7	< 0.05	76	< 0.04	NR	NR	NR
	08/31/05	220	220	48	< 0.1 UJ	5.5	< 0.05 UJ	75	< 0.04	NR	NR	NR
	06/01/05	210	210	48	0.11	5.5	< 0.05	77	0.04	NR	NR	NR
	04/04/05	180	180	51	< 0.1	5.5	< 0.05	79	0.11 J-	NR	NR	NR
	12/17/04	120	120	52	< 0.1	5.8	< 0.05	81	NA	NR	NR	NR
DUP1217042A	12/17/04	190	190	51	< 0.1	5.6	< 0.05	79	NA	NR	NR	NR

Table A-10-1
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Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
231GW09	08/12/04	250	250	50	< 0.1	5.8	< 0.05	77	NA	NR	NR	NR
(shallow)	05/27/04	310	310	51	< 0.1	6	< 0.05	81	NA	NR	NR	NR
DUP0527042C	05/27/04	250	250	51	< 0.1	5.7	< 0.05	80	NA	NR	NR	NR
231GW09CL	05/27/04	210	210	52 D	0.11	7.1 D	< 0.05	83 D	NA	NR	NR	NR
	03/18/04	210	210	56	< 0.1	6.5	< 0.05	85	NA	NR	NR	NR
	12/04/03	220	220	53	< 0.1	6.9	< 0.05	81	NA	NR	NR	NR
	08/15/03	190	190	51	< 0.1	7.7 b,J-	< 0.05 UJ	91	NA	NR	NR	NR
	06/10/03	250	250	57	< 0.1	9.1	< 0.05	88	NA	NR	NR	NR
	01/13/99	183	183	55.8	NA	33.6	NA	69	NA	NR	NR	NR
	10/14/98	181	181	49	NA	28.2	NA	65	NA	NR	NR	NR
	07/15/98	210	210	49.9 D	NA	32.2 D	NA	68.6 D	NA	NR	NR	NR
	04/20/98	250	250	75.1 D	NA	45.6 D	NA	92.8 D	NA	NR	NR	NR
	01/28/98	190	190	62.4 D	NA	22.3 D	NA	73.8 D	NA	NR	NR	NR
	10/23/97	< 165	< 165	47.5 D	NA	24.5 D	NA	67.4 D	NA	NR	NR	NR
	07/24/97	172	172	42.4 D	NA	29.1 D	NA	75.9 D	NA	NR	NR	NR
	04/22/97	195	195	49.8 D	NA	29.8 D	NA	69.2 D	NA	NR	NR	NR
	01/28/97	197	197	53.9 D	NA	22.5 D	NA	67 D	NA	NR	NR	NR
231GW10	06/07/07	630	630	48	0.4	< 0.05	< 0.05	< 0.5	< 0.04 UJ	-130.90	6.80	21.00
(shallow)	03/09/06	820	820	45	0.37	< 0.05	< 0.05	3.5	< 0.04 UJ	-130.7	5.46	15.78
	03/22/05	680	680	48	0.35	< 0.05	< 0.05	12	< 0.04	NR	NR	NR
	01/25/99	391	391	31.3	NA	< 0.2	NA	60.6	NA	NR	NR	NR
	10/19/98	683	683	67	NA	0.15	NA	0.751	NA	NR	NR	NR
	07/22/98	674	674	55.6 D	NA	0.018	NA	0.327	NA	NR	NR	NR
	04/23/98	648	648	52.6 D	NA	0.012	NA	14.1 D	NA	NR	NR	NR
	01/28/98	624	624	53 D	NA	0.011	NA	8.9	NA	NR	NR	NR
	10/22/97	663	663	62.1 D	NA	< 0.01	NA	< 0.387	NA	NR	NR	NR
	07/23/97	677	677	60.8 D	NA	0.041	NA	0.291	NA	NR	NR	NR
	04/23/97	676	676	63.5 D	NA	0.019	NA	0.158	NA	NR	NR	NR
	01/28/97	448	448	61.5 D	NA	< 0.01	NA	1.22	NA	NR	NR	NR
231GW11	06/07/07	400	400	52	0.11	< 0.05	0.08	2.3 J+	< 0.04	-61.00	6.70	17.90
(shallow)	03/15/06	420	420	53	0.15	< 0.05	< 0.05	4.8	< 0.04	-7.7	7.37	15.2
	04/05/05	410	410	50	0.15	< 0.05	< 0.05	7.3	0.3	NR	NR	NR
	01/11/99	439	439	70	NA	< 0.8	NA	10.3	NA	NR	NR	NR
	10/12/98	395	395	56.5	NA	< 0.04	NA	10.9	NA	NR	NR	NR
	07/13/98	380	380	48.8 D	NA	0.022	NA	5.01	NA	NR	NR	NR
	04/21/98	400	400	50.6 D	NA	0.037	NA	6.01	NA	NR	NR	NR

Table A-10-1
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Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
231GW11 (shallow)	01/26/98	416	416	53.8 D	NA	0.019	NA	4	NA	NR	NR	NR
	10/21/97	446	446	59.6 D	NA	0.017	NA	2.14	NA	NR	NR	NR
	07/21/97	431	431	55 D	NA	0.013	NA	4.44	NA	NR	NR	NR
	04/21/97	443	443	60.3 D	NA	< 0.01	NA	2.08	NA	NR	NR	NR
	04/10/95	466	461	72.1	NA	< 0.2	NA	< 5	NA	NR	NR	NR
231GW13 (deep)	06/05/07	480	480	200	0.61	0.84	< 0.05	< 0.5	< 0.04	202.00	7.80	18.70
DUP0605072B	06/05/07	460	460	220	0.6	0.78	< 0.05	< 0.5	< 0.04	--	--	--
	03/14/06	420	420	160	0.51	0.07	< 0.05	< 0.5	< 0.04	221	7.52	16.4
	04/05/05	410	410	150	0.45	< 0.05	< 0.05	< 0.5	< 0.04	NR	NR	NR
	01/14/99	434	434	180	NA	< 2	NA	< 25	NA	NR	NR	NR
	10/15/98	429	429	184	NA	< 0.08	NA	< 1	NA	NR	NR	NR
	07/16/98	432	432	157 D	NA	0.791	NA	0.361	NA	NR	NR	NR
	04/21/98	416	416	145 D	NA	0.043	NA	0.485	NA	NR	NR	NR
	01/26/98	400	400	133 D	NA	0.029	NA	0.242	NA	NR	NR	NR
	10/20/97	415	415	157 D	NA	0.163	NA	0.358	NA	NR	NR	NR
	07/21/97	423	423	150 D	NA	0.912	NA	0.505	NA	NR	NR	NR
	04/21/97	432	432	162 D	NA	0.067	NA	0.304	NA	NR	NR	NR
	01/27/97	430	430	160 D	NA	0.04	NA	0.44	NA	NR	NR	NR
	04/07/95	272	269	58.8	NA	< 0.2	NA	9.98	NA	NR	NR	NR
231GW15 (intermediate)	06/07/07	330	330	59	0.12	0.14 J+	0.15	24 J+	< 0.04	-102.00	7.60	17.20
	03/14/06	300	300	57	0.11	< 0.05	< 0.05	28	< 0.04	-125	7.54	13.4
	04/05/05	320	320	59	< 0.1	< 0.05	< 0.05	37	< 0.04	NR	NR	NR
	01/14/99	281	281	83.8	NA	< 0.5	NA	20	NA	NR	NR	NR
	10/15/98	254	254	79	NA	0.23	NA	12.7	NA	NR	NR	NR
	07/16/98	< 256	< 256	68.8 D	NA	0.25	NA	11.2	NA	NR	NR	NR
	04/21/98	276	276	59.9 D	NA	< 0.028	NA	4.79	NA	NR	NR	NR
	01/26/98	276	276	64.8 D	NA	0.057	NA	11.6	NA	NR	NR	NR
	10/20/97	255	255	74.3 D	NA	0.33	NA	15.2 D	NA	NR	NR	NR
	07/21/97	271	271	66.7 D	NA	0.014	NA	20.5 D	NA	NR	NR	NR
	04/21/97	279	279	70.4 D	NA	0.021	NA	16.6 D	NA	NR	NR	NR
	01/30/97	425	425	153 D	NA	< 0.01	NA	46.8 D	NA	NR	NR	NR
	01/27/97	265	265	65.7 D	NA	0.1	NA	9.9	NA	NR	NR	NR

Table A-10-1
Results of General Chemistry Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
231GW16 (shallow)	06/07/07	480	480	360	0.37	< 0.05	< 0.05	28	0.07 J-	-55.50	7.47	16.60
	03/09/06	480	480	230	0.45	< 0.05	< 0.05	36	0.07 J-	-15.9	5.95	13.72
	03/22/05	430	430	150	0.32	< 0.05	< 0.05	16	0.19	NR	NR	NR
	01/14/99	516	516	400	NA	< 4	NA	< 50	NA	NR	NR	NR
	10/15/98	449	449	272	NA	< 0.16	NA	< 2	NA	NR	NR	NR
	07/16/98	374	374	407 D	NA	< 0.01	NA	42.4 D	NA	NR	NR	NR
	04/21/98	422	422	188 D	NA	< 0.01	NA	29 D	NA	NR	NR	NR
	01/26/98	406	406	214 D	NA	0.016	NA	13.5	NA	NR	NR	NR
	10/20/97	432	432	566 D	NA	0.069	NA	30.2 D	NA	NR	NR	NR
	07/21/97	432	432	580 D	NA	< 0.01	NA	70.6 D	NA	NR	NR	NR
	04/24/97	474	474	297 D	NA	< 0.01	NA	39.9 D	NA	NR	NR	NR
	04/10/95	190	189	30.5	NA	6.83	NA	38.5	NA	NR	NR	NR
231GW17 (deep)	06/07/07	230	230	32	< 0.1	8.8 J+	< 0.05	39 J+	< 0.04 UJ	-4.00	7.10	19.40
	03/15/06	250	250	30	< 0.1	8.6	< 0.05	41	< 0.04	186.3	6.88	18.1
	04/05/05	220	220	31	< 0.1	9.2	< 0.05	42	< 0.04	NR	NR	NR
	01/13/99	207	207	45.8	NA	8.79	NA	44	NA	NR	NR	NR
	10/14/98	195	195	37	NA	7.2	NA	37	NA	NR	NR	NR
	07/15/98	202	202	38.7 D	NA	7.92 D	NA	38.7 D	NA	NR	NR	NR
	04/20/98	194	194	33.6 D	NA	6.88 D	NA	34.2 D	NA	NR	NR	NR
	01/27/98	184	184	35.5 D	NA	7.97 D	NA	39.2 D	NA	NR	NR	NR
	10/21/97	181	181	42.7 D	NA	7.48 D	NA	39.8 D	NA	NR	NR	NR
	07/22/97	187	187	32.4 D	NA	7.45 D	NA	35.4 D	NA	NR	NR	NR
	04/22/97	200	200	38 D	NA	7.36 D	NA	34.6 D	NA	NR	NR	NR
	01/28/97	187	187	37.9 D	NA	7.2 D	NA	37.6 D	NA	NR	NR	NR
	04/10/95	232	23.1	50.2	NA	6.91	NA	58.9	NA	NR	NR	NR
231GW18 (intermediate)	06/07/07	250	250	52	< 0.1	5.2 J+	< 0.05	64 J+	< 0.04 UJ	NM	7.10	19.60
	03/15/06	270	270	57	< 0.1	5.4	< 0.05	73	< 0.04	222	6.81	18.6
	04/05/05	240	240	49	< 0.1	6.4	< 0.05	58	< 0.04	NR	NR	NR
	01/13/99	242	242	69	NA	7.4	NA	66	NA	NR	NR	NR
	10/14/98	230	230	76	NA	8.3	NA	75	NA	NR	NR	NR
	07/15/98	224	224	60.2 D	NA	7.01 D	NA	65.2 D	NA	NR	NR	NR
	04/20/98	230	230	60.8 D	NA	7.13 D	NA	59.5 D	NA	NR	NR	NR
	01/27/98	226	226	57 D	NA	7.66 D	NA	68.8 D	NA	NR	NR	NR
	10/21/97	219	219	62.4 D	NA	7.31 D	NA	61.4 D	NA	NR	NR	NR

Table A-10-1
Results of General Chemistry Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
231GW18 (intermediate)	07/22/97	276	276	56.7 D	NA	7.71 D	NA	62.1 D	NA	NR	NR	NR
	04/22/97	240	240	61.8 D	NA	7.56 D	NA	60.7 D	NA	NR	NR	NR
	01/28/97	225	225	61 D	NA	7 D	NA	61.1 D	NA	NR	NR	NR
	04/10/95	478	477	32.4	NA	0.357	NA	41.6	NA	NR	NR	NR
231GW19 (shallow)	06/07/07	320	320	31	0.22	< 0.05	< 0.05	20 J+	< 0.04	NM	7.00	19.30
	03/16/06	270	270	32	0.17	< 0.05	< 0.05	38	0.06 J-	-116.7	7.01	16.4
	04/05/05	190	190	28	0.17	< 0.05	< 0.05	10	< 0.04	NR	NR	NR
	01/13/99	340	340	73	NA	0.12	NA	21	NA	NR	NR	NR
	10/14/98	234	234	59.8	NA	< 0.4	NA	27	NA	NR	NR	NR
	07/15/98	306	306	47.1 D	NA	0.071	NA	39.9 D	NA	NR	NR	NR
	04/20/98	320	320	52.5 D	NA	0.051	NA	65.8 D	NA	NR	NR	NR
	01/27/98	334	334	52.5 D	NA	0.011	NA	3.22	NA	NR	NR	NR
	10/20/97	294	294	54.6 D	NA	0.011	NA	41.2 D	NA	NR	NR	NR
	07/22/97	254	254	41.1 D	NA	< 0.01	NA	43.8 D	NA	NR	NR	NR
	04/21/97	329	329	45.7 D	NA	0.046	NA	30.6 D	NA	NR	NR	NR
	01/27/97	245	245	36.3 D	NA	< 0.01	NA	7.48	NA	NR	NR	NR
	04/11/95	224	223	53.4	NA	1.56	NA	22.9	NA	NR	NR	NR
231GW20 (deep)	06/05/07	90	90	9.7	< 0.1	0.66 J	< 0.05 UJ	8.8	< 0.04	176.00	7.30	16.50
DUP0605072A	06/05/07	52	52	9.6	< 0.1	0.65	< 0.05	8.8	< 0.04	NA	NA	NA
	03/15/06	78	78	16	< 0.1	0.6	< 0.05	9.6	< 0.04	91.7	7.24	17.6
	04/06/05	140	140	39	< 0.1	0.91	< 0.05	12	< 0.04 UJ	NR	NR	NR
	01/20/99	222	222	67	NA	2.1	NA	23.6	NA	NR	NR	NR
	10/20/98	218	218	66.5	NA	1.9	NA	22	NA	NR	NR	NR
	07/21/98	216	216	57.4 D	NA	2.13 D	NA	25.4 D	NA	NR	NR	NR
	04/23/98	216	216	53.9 D	NA	2.25 D	NA	23.6 D	NA	NR	NR	NR
	01/29/98	208	208	57.6 D	NA	2.29 D	NA	25.5 D	NA	NR	NR	NR
	10/22/97	212	212	56.8 D	NA	2.25	NA	26.7 D	NA	NR	NR	NR
	07/23/97	232	232	57.2 D	NA	2.34 D	NA	25.5 D	NA	NR	NR	NR
	04/23/97	215	215	57.4 D	NA	2.08 D	NA	24.1 D	NA	NR	NR	NR
	01/29/97	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR
	04/12/95	58.8	584	49.5	NA	< 0.2	NA	7.13	NA	NR	NR	NR

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Results of General Chemistry Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
231GW21	06/07/07	450	450	37	0.19	< 0.05	< 0.05	0.5	< 0.04 UJ	-100.90	6.60	21.20
(shallow)	03/08/06	450	450	32	0.2	< 0.05	< 0.05	< 0.5	< 0.04	-62.5	6.56	17.9
	03/31/05	500	500	41	0.25	< 0.05	< 0.05	< 0.5	< 0.04	NR	NR	NR
DUP0308061A	03/08/06	470	470	34	0.2	< 0.05	< 0.05	< 0.5	< 0.04	NR	NR	NR
231GW21CL	03/08/06	456	456	33.6	< 1 U	< 0.02 U	< 0.02 U	< 1 U	< 0.05 U UJ	NR	NR	NR
DUP0331052D	03/31/05	440	440	33	0.23	< 0.05	< 0.05	< 0.5	< 0.04	NR	NR	NR
231GW21CL	03/31/05	516	516	39.7	0.39	< 0.1 U	< 0.02 U	< 1 U	< 0.04 U	NR	NR	NR
	01/20/99	650	650	65	NA	0.38	NA	< 1	NA	NR	NR	NR
	10/20/98	671	671	53.7	NA	0.42	NA	< 0.5	NA	NR	NR	NR
	07/23/98	722	722	49.9 D	NA	0.011	NA	0.17	NA	NR	NR	NR
	05/01/98	714	714	48.6 D	NA	0.014	NA	0.261	NA	NR	NR	NR
	01/28/98	708	708	52.6 D	NA	0.02	NA	0.12	NA	NR	NR	NR
	10/27/97	595	595	58.4 D	NA	0.012	NA	0.512	NA	NR	NR	NR
	07/24/97	713	713	51 D	NA	< 0.05 DU	NA	< 0.5 DU	NA	NR	NR	NR
	04/28/97	676	676	281 D	NA	0.153	NA	34.2 D	NA	NR	NR	NR
	04/24/97	695	695	53.2 D	NA	< 0.01	NA	< 0.1	NA	NR	NR	NR
	01/30/97	686	686	53.9 D	NA	0.02	NA	1.46	NA	NR	NR	NR
231GW22	06/07/07	750	750	54	0.28	< 0.05	< 0.05	< 0.5	< 0.04 UJ	-127.20	6.66	20.00
(shallow)	03/09/06	740	740	57	0.26	< 0.05	< 0.05	< 0.5	< 0.04 UJ	-92	6.77	17.6
DUP0309061A	03/09/06	760	760	57	0.26	< 0.05	< 0.05	< 0.5	< 0.04 UJ	NR	NR	NR
	03/23/05	680	680	58	0.24	< 0.05	< 0.05	< 0.5	< 0.04	NR	NR	NR
DUP0323052A	03/23/05	700	700	58	0.24	< 0.05	< 0.05	< 0.5	< 0.04	NR	NR	NR
	01/21/99	741	741	88	NA	0.54	NA	3	NA	NR	NR	NR
	10/21/98	705	705	101	NA	0.053	NA	1.5	NA	NR	NR	NR
	07/22/98	672	672	73 D	NA	0.021	NA	0.242	NA	NR	NR	NR
	04/27/98	692	692	79 D	NA	0.07	NA	0.252	NA	NR	NR	NR
	01/29/98	650	650	84.8 D	NA	0.051	NA	0.269	NA	NR	NR	NR
	10/28/97	645	645	98.1 D	NA	0.037	NA	0.536	NA	NR	NR	NR
	07/28/97	692	692	141 D	NA	0.075	NA	0.356	NA	NR	NR	NR
	04/29/97	456	456	60.6 D	NA	0.019	NA	0.681	NA	NR	NR	NR
231GW23	06/07/07	580	580	59	0.37	< 0.05 UJ	< 0.05 UJ	< 0.5	< 0.04	-63.00	6.80	13.40
(shallow)	03/15/06	410	410	47	0.31	0.1	< 0.05	11	< 0.04	-134.7	6.84	12.5
	04/05/05	510	510	55	0.34	< 0.05	< 0.05	< 0.5	< 0.04	NR	NR	NR
	01/20/99	436	436	68	NA	0.11	NA	1	NA	NR	NR	NR
	10/22/98	447	447	59.1	NA	0.68	NA	9.5	NA	NR	NR	NR

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Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
231GW23 (shallow)	07/23/98	454	454	55.8 D	NA	< 0.013	NA	< 1.27	NA	NR	NR	NR
	04/28/98	422	422	52.8 D	NA	< 0.02	NA	< 0.536	NA	NR	NR	NR
	02/02/98	418	418	60.3 D	NA	< 0.01	NA	6.1	NA	NR	NR	NR
	10/23/97	445	445	56.5 D	NA	< 0.011	NA	< 0.561	NA	NR	NR	NR
	07/29/97	439	439	56.9 D	NA	< 0.01	NA	0.231	NA	NR	NR	NR
	04/30/97	299	299	33.9 D	NA	0.295	NA	19.6 D	NA	NR	NR	NR
231GW24 (shallow)	06/07/07	320	320	38	< 0.1	< 0.05	< 0.05	26 J+	< 0.04	-79.00	7.10	19.40
	03/16/06	330	330	30	< 0.1	0.06	< 0.05	40	< 0.04 R	-57.5	7.3	13.1
	04/05/05	220	220	26	< 0.1	0.21	< 0.05	30	< 0.04	NR	NR	NR
	01/20/99	298	298	55.9	NA	< 0.04	NA	22	NA	NR	NR	NR
	10/19/98	245	245	43.7	NA	< 0.04	NA	25	NA	NR	NR	NR
	07/20/98	248	248	39.2 D	NA	0.016	NA	33.2 D	NA	NR	NR	NR
	04/22/98	286	286	51.8 D	NA	0.174 D	NA	30.2 D	NA	NR	NR	NR
	02/03/98	252	252	44 D	NA	2.11 D	NA	37.3 D	NA	NR	NR	NR
	10/29/97	274	274	39.6 D	NA	0.014	NA	16.8 D	NA	NR	NR	NR
	07/30/97	242	242	36.2 D	NA	0.026	NA	25.6 D	NA	NR	NR	NR
	04/30/97	520	520	91.1 D	NA	0.017	NA	27.2 D	NA	NR	NR	NR
231GW25 (shallow)	06/07/07	830	830	51	0.43	< 0.05	< 0.05	< 0.5	< 0.04	-100.00	6.90	14.00
	03/15/06	800	800	48	0.42	< 0.05	< 0.05	0.8	< 0.04	70.3	6.94	12.2
	04/06/05	690	690	50	0.46	< 0.05	< 0.05	2.4	< 0.04 UJ	NR	NR	NR
	01/21/99	700	700	73	NA	0.26	NA	5.4	NA	NR	NR	NR
	10/19/98	699	699	71	NA	0.22	NA	1.7	NA	NR	NR	NR
	07/20/98	794	794	64.8 D	NA	< 0.01	NA	< 1.12	NA	NR	NR	NR
	04/22/98	644	644	63.2 D	NA	< 0.031	NA	4.49	NA	NR	NR	NR
	02/03/98	678	678	69.2 D	NA	< 0.01	NA	30 D	NA	NR	NR	NR
	10/29/97	550	550	64.5 D	NA	< 0.01	NA	10.5	NA	NR	NR	NR
	07/30/97	490	490	64.8 D	NA	0.034	NA	15.8 D	NA	NR	NR	NR
	04/28/97	246	246	73.7 D	NA	3.63 D	NA	73.1 D	NA	NR	NR	NR
231GW26 (intermediate)	06/08/07	250	250	36	< 0.1	6.6 J+	< 0.05	49 J+	< 0.04	NM	6.80	15.00
	03/16/06	290	290	44	< 0.1	3.2	< 0.05	63	< 0.04 R	68.7	6.99	18.9
	04/06/05	260	260	63	< 0.1	2.2	< 0.05	73	< 0.04 UJ	NR	NR	NR
	01/21/99	242	242	94	NA	4.1	NA	85	NA	NR	NR	NR
	10/21/98	248	248	101	NA	3.4	NA	89	NA	NR	NR	NR
	07/22/98	242	242	70.2 D	NA	4.36 D	NA	71.5 D	NA	NR	NR	NR
	04/27/98	246	246	73 D	NA	4.07 D	NA	72.6 D	NA	NR	NR	NR

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Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
231GW26 (intermediate)	01/29/98	222	222	64.6 D	NA	4.39 D	NA	62.5 D	NA	NR	NR	NR
	10/28/97	226	226	66.5 D	NA	4.09 D	NA	68.5 D	NA	NR	NR	NR
	07/28/97	248	248	75.6 D	NA	4.53 D	NA	75.2 D	NA	NR	NR	NR
	04/28/97	223	223	67.7 D	NA	6.39 D	NA	53.9 D	NA	NR	NR	NR
231GW27 (intermediate)	06/08/07	270	270	57	< 0.1	5 J+	< 0.05	70 J+	< 0.04	60.00	6.90	13.80
	03/15/06	230	230	59	< 0.1	5.6	< 0.05	70	< 0.04	106.5	6.81	16.8
	04/06/05	270	270	60	< 0.1	5.5	< 0.05	68	< 0.04 UJ	NR	NR	NR
	01/21/99	48	48	< 9.62	NA	0.64	NA	< 7.6	NA	NR	NR	NR
	10/21/98	219	219	67.8	NA	6	NA	57	NA	NR	NR	NR
	07/22/98	200	200	52.1 D	NA	5.54 D	NA	54.4 D	NA	NR	NR	NR
	04/27/98	220	220	57.3 D	NA	6.54 D	NA	54.2 D	NA	NR	NR	NR
	01/29/98	176	176	41.4 D	NA	6.38 D	NA	49.7 D	NA	NR	NR	NR
	10/28/97	197	197	50.5 D	NA	6.47 D	NA	54.3 D	NA	NR	NR	NR
	07/28/97	222	222	55.8 D	NA	7.69 D	NA	57 D	NA	NR	NR	NR
	04/29/97	255	255	27.8 D	NA	4.4 D	NA	42.6 D	NA	NR	NR	NR
231GW28 (intermediate)	06/05/07	360	360	20	0.22	0.39	< 0.05	16	< 0.04	-100.00	6.87	19.00
	03/15/06	320	320	15	0.27	< 0.05	< 0.05	1.9	< 0.04	83.7	6.9	14.2
	04/06/05	320	320	18	0.27	0.46	< 0.05	13	0.05 J-	NR	NR	NR
	01/11/99	211	211	31	NA	4.2	NA	57	NA	NR	NR	NR
	10/22/98	212	212	32	NA	6.1	NA	76	NA	NR	NR	NR
	07/23/98	220	220	36.4 D	NA	6.32 D	NA	69.7 D	NA	NR	NR	NR
	04/28/98	178	178	32.4 D	NA	4.36 D	NA	48.5 D	NA	NR	NR	NR
	02/02/98	174	174	26.1 D	NA	5.5 D	NA	64.8 D	NA	NR	NR	NR
	10/27/97	170	170	30.7 D	NA	7.89 D	NA	67.4 D	NA	NR	NR	NR
	07/29/97	196	196	33.2 D	NA	6.8 D	NA	65.1 D	NA	NR	NR	NR
	04/29/97	267	267	51.8 D	NA	2.62 D	NA	60.3 D	NA	NR	NR	NR
231GW29 (intermediate)	06/06/07	270	270	54	< 0.1	1.5 J+	< 0.05	70	< 0.04	91.00	7.80	18.60
DUP0606072A	06/06/07	290	290	54	< 0.1	1.5 J+	< 0.05	71	< 0.04	--	--	--
231GW29CL	06/06/07	280	280	49	< 0.2	1.1	< 0.2	68	< 0.05	--	--	--
	03/16/06	300	300	53	< 0.1	1	< 0.05	69	< 0.04 R	-49	7.35	16.7
	04/06/05	280	280	54	< 0.1	2.5	< 0.05	66	< 0.04 UJ	NR	NR	NR
	01/21/99	274	274	68	NA	2.7	NA	80	NA	NR	NR	NR
	10/22/98	272	272	59.8	NA	2.6	NA	72	NA	NR	NR	NR
	07/23/98	270	270	53.8 D	NA	3.95 D	NA	64 D	NA	NR	NR	NR
	04/28/98	258	258	54.2 D	NA	3.72 D	NA	58.8 D	NA	NR	NR	NR

Table A-10-1
Results of General Chemistry Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
231GW29 (intermediate)	02/02/98	260	260	54.8 D	NA	3.38 D	NA	66.1 D	NA	NR	NR	NR
	10/27/97	234	234	53.4 D	NA	4.89 D	NA	62.3 D	NA	NR	NR	NR
	07/29/97	247	247	52.6 D	NA	4.17 D	NA	58 D	NA	NR	NR	NR
	04/30/97	823	823	86.2 D	NA	0.018	NA	20.4 D	NA	NR	NR	NR
231GW30 (shallow)	06/07/07	510	510	46	0.38	0.05 J+	< 0.05	3.8	0.04 J-	-111.60	7.03	18.00
	03/09/06	480	480	42	0.39	0.13	< 0.05	17	< 0.04 UJ	-59.7	7.09	15.1
	03/22/05	440	440	33	0.35	0.16	< 0.05	27	< 0.04	NR	NR	NR
	01/19/99	802	802	64	NA	0.25	NA	13	NA	NR	NR	NR
	10/19/98	809	809	66.1	NA	0.09	NA	3.8	NA	NR	NR	NR
	07/20/98	800	800	55.9 D	NA	0.013	NA	3.62	NA	NR	NR	NR
	04/22/98	748	748	60.3 D	NA	0.054	NA	16.7 D	NA	NR	NR	NR
	02/03/98	656	656	54.4 D	NA	1.04 D	NA	131 D	NA	NR	NR	NR
	02/03/98	588	588	80.6 D	NA	0.034	NA	0.464	NA	NR	NR	NR
	10/29/97	857	857	66.2 D	NA	0.03	NA	2.16	NA	NR	NR	NR
	07/30/97	846	846	67.4 D	NA	0.015	NA	3.97	NA	NR	NR	NR
231PZ01 (shallow)	06/07/07	NA	NA	NA	NA	NA	NA	NA	NA	141.20	6.80	19.60
	03/14/06	760	760	48	0.24	< 0.05	< 0.05	0.78	< 0.04	-92.9	16.73	17.22
	04/04/05	840	840	81	0.31	< 0.05	< 0.05	< 0.5	< 0.04 UJ	NR	NR	NR
	07/14/98	730	730	81.5 D	NA	0.216	NA	0.495	NA	NR	NR	NR
	04/30/98	728	728	87.1 D	NA	0.134	NA	0.201	NA	NR	NR	NR
	02/03/98	660	660	118 D	NA	< 0.01	NA	52.7 D	NA	NR	NR	NR
231PZ02 (shallow)	06/07/07	NA	NA	NA	NA	NA	NA	NA	NA	-97.00	7.10	20.20
	03/10/06	890	890	95	0.3	< 0.05	< 0.05	1.6	0.07 J-	-217.7	8.75	15.44
	04/04/05	760	760	72	0.3	< 0.05	< 0.05	4.6	0.11 J-	NR	NR	NR
	07/14/98	600	600	232 D	NA	0.029	NA	17.7 D	NA	NR	NR	NR
	04/30/98	494	494	153 D	NA	0.027	NA	27.9 D	NA	NR	NR	NR
	02/03/98	456	456	31.2 D	NA	< 0.01	NA	20.6 D	NA	NR	NR	NR
231PZ03 (shallow)	06/07/07	580	580	33	0.27	< 0.05	< 0.05	< 0.5	< 0.04 UJ	-132.00	6.80	20.80
	03/14/06	520	520	32	0.21	< 0.05	< 0.05	< 0.5	< 0.04	-124.9	6.91	18.19
	04/04/05	490	490	38	0.21	< 0.05	< 0.05	< 0.5	0.08 J-	NR	NR	NR
	01/12/99	466	466	74	NA	< 1	NA	17.7	NA	NR	NR	NR
	10/13/98	465	465	66	NA	< 0.04	NA	6.84	NA	NR	NR	NR
	07/14/98	530	530	38.7 D	NA	< 0.01	NA	3.16	NA	NR	NR	NR
	04/30/98	570	570	34.3 D	NA	< 0.01	NA	3.71	NA	NR	NR	NR
	02/04/98	732	732	15.3 D	NA	< 0.01	NA	3.21	NA	NR	NR	NR

Table A-10-1
Results of General Chemistry Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
231PZ04 (shallow)	06/07/07	610	610	31	0.28	< 0.05	< 0.05	< 0.5	0.07 J-	-128.00	6.80	20.70
	03/14/06	570	570	29	0.24	< 0.05	< 0.05	< 0.5	< 0.04	-110.1	6.92	17.6
	04/04/05	550	550	32	0.24	< 0.05	< 0.05	< 0.5	0.06 J-	NR	NR	NR
	01/11/99	488	488	80.2	NA	< 0.5	NA	7.32	NA	NR	NR	NR
	10/12/98	477	477	59	NA	< 0.2	NA	8	NA	NR	NR	NR
	07/13/98	570	570	36.7 D	NA	0.019	NA	4.74	NA	NR	NR	NR
	04/30/98	582	582	34.1 D	NA	0.017	NA	4.06	NA	NR	NR	NR

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
mg/L - milligrams per liter
°C - degree centigrade
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
mV - millivolts
NR - Not Reported
ORP - oxidation Reduction Potential
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-10-2
Summary of Dissolved Oxygen Measurements and Results of TPH Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	Field	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	**443**	**443**	**443**
207GW03 (intermediate)	06/08/07	0.37	< 50	< 50	< 300
	03/16/06	0.16	< 50	55 HY	< 300
	04/12/05	0.2	< 50	< 50	< 300
	03/19/04	0.4	< 50	< 50	< 300
	08/21/03	0.4	< 50	< 50	< 300
	03/19/03	2.7	< 50	< 50	< 300
	12/10/02	0.5	< 50	< 50	< 300
	09/03/02	0.4	< 50	< 50	< 300
	06/03/02	0.9	< 50	< 50	< 300
	03/11/02	1.64	< 50	< 50	< 300
	11/30/01	0.8	< 50	< 50	< 300
	08/30/01	2.4	< 50	73 [3] Y,NJ	< 300 [3]
	05/14/01	3.7	< 50	< 50	< 300
	04/13/99	0.34	< 50	63 (J25, J9)	< 300
	01/11/99	0.09	< 50	< 50	< 300
	10/12/98	0.62	< 50	< 50	< 300
	07/09/98	0.54	< 50	59 (J25)	< 300
	05/04/98	0.46	< 50	130 (J25)	< 300
	03/05/98	0.38	< 50	< 50	< 300
231GW06 (intermediate)	06/05/07	0.40	< 50	< 50	< 300
	03/15/06	0.69	< 50	< 50	< 300
	04/04/05	0.1	< 50	< 50	< 300
	03/18/04	1.12	< 50	< 50	< 300
	08/14/03	0.2	< 50	66 Y	< 300
	03/17/03	0.4	< 50	< 50	< 300
	12/04/02	1.2	< 50	< 50	< 300
	09/03/02	0.3	< 50	< 50	< 300
	05/30/02	1.1	< 50	< 50	< 300
	03/05/02	0.8	< 50	55 Y	< 300
	11/29/01	3.5	< 50	< 50	370
	08/30/01	1.8	< 50	64 [3] Y,NJ	< 300 [3]
	05/09/01	3.1	< 50	< 50	< 300
	04/20/99	0.28	< 50	< 50	< 300
	01/20/99	0.18	< 50	< 50 (J25)	< 300
	10/20/98	0.79	< 50	< 50	< 300
	07/21/98	0.82	< 50	< 50	< 300
	04/23/98	0.73	< 50	< 50	< 300
	01/27/98	0.23	< 50	< 50	< 300
	10/22/97	0.49	< 50	< 50	< 300
	07/23/97	0.29	< 50	< 50	< 300
	04/23/97	0.29	< 50	< 50	< 300
	01/29/97	0.26	< 50	< 50	< 300
	10/10/96	NM	< 50	< 50	< 300
	07/15/96	NM	150 (J25)	< 50	< 300
	05/02/96	NM	< 50	< 50	< 300 (U12)
	02/07/96	NM	< 50	< 50	< 300
	11/09/95	NM	< 50	56 (J25)	< 300
	08/10/95	NM	< 50	120 (J25)	< 300
	04/17/95	NM	< 50	200 (J25)	NA
	01/25/95	NM	< 50	< 50	NA
	11/09/94	NM	< 50	**660 (J25)**	NA
	08/16/94	NM	< 50	66 (J25)	NA

Table A-10-2
Summary of Dissolved Oxygen Measurements and Results of TPH Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	Field	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		**--**	**443**	**443**	**443**
231GW06 (intermediate)	04/25/94	NM	< 50	190 (J25)	NA
	01/28/94	NM	< 50	< 50	NA
	10/25/93	NM	< 50	< 50	NA
	07/27/93	NM	< 50	< 50	NA
231GW09 (shallow)	06/05/07	2.84	< 50	< 50	< 300
	02/27/07	0.37	NA	NA	NA
	12/05/06	0.67	< 50	< 50	< 300
DUP1205062B	12/05/06	--	< 50	< 50	< 300
231GW09CL	12/05/06	--	< 50 U	< 48 U	< 290 U
	08/15/06	0.51	< 50	< 50	< 300
	05/24/06	2.64	< 50	< 50	< 300
	03/15/06	2.41	< 50	< 50	< 300
	11/29/05	0.3	< 50	< 50	< 300
DUP1129052A	11/29/05	NA	< 50	< 50	< 300
	08/31/05	0.7	< 50	< 50	< 300
	06/01/05	1.9	< 50	< 50	< 300
	04/04/05	2.1	< 50	< 50	< 300
	12/17/04	0.9	< 50	< 50	< 300
DUP1217042A	12/17/04	--	< 50	< 50	< 300
	08/12/04	0.82	< 50	< 50	< 300
	05/27/04	0.49	< 50	170 HY	< 300
DUP0527042C	05/27/04	--	< 50	< 50	< 300
231GW09CL	05/27/04	--	< 50	< 66	< 330
	03/18/04	0.7	< 50	< 50	< 300
	12/04/03	1.6	NA	NA	NA
	08/15/03	1.7	< 50	< 50	< 300
	06/10/03	2.1	NA	NA	NA
	03/17/03	5	< 50	< 50	< 300
	12/04/02	1.9	< 50	< 50	< 300
	08/30/02	4.4	< 50	< 50	< 300
	05/30/02	2.8	< 50	170 Y	**610**
	03/07/02	2.2	< 50	< 50 UJ	< 300 UJ
	11/29/01	2.5	< 50	< 50	< 300
	08/30/01	3.9	< 50	< 50 [3]	< 300 [3]
	05/09/01	4.4	< 50	< 50	< 300
	04/14/99	4.5 (J35)	< 50	< 50	< 300
	01/13/99	4.23	< 50	< 50	< 300
	10/14/98	4.73 (J35)	< 50	< 50	< 300
	07/15/98	6.62	< 50	< 50	< 300
	04/20/98	4.05	< 50	< 50	< 300
	01/28/98	3.47	< 50	< 50	< 300
	10/23/97	2.08	< 50	< 50	< 300
	07/24/97	3.72	< 50	< 50	< 300
	04/22/97	3.96	< 50	< 50	< 300
	01/28/97	1.39	< 50	< 50	< 300
	10/09/96	NM	< 50	< 50	< 300
	07/12/96	NM	< 50	< 50	< 300
	05/01/96	NM	< 50	< 50	< 300
	02/08/96	NM	< 50	< 50	< 300
	11/07/95	NM	< 50	< 50	< 300
	08/10/95	NM	< 50	< 50	< 300
	04/18/95	NM	< 50	< 50	NA
	01/23/95	NM	< 50	< 50	NA
	11/10/94	NM	< 50	< 50	NA

Table A-10-2
Summary of Dissolved Oxygen Measurements and Results of TPH Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	Field	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	**443**	**443**	**443**
231GW09 (shallow)	08/18/94	NM	< 50	< 50	NA
	04/27/94	NM	< 50	< 50	NA
	02/04/94	NM	< 50	< 50	NA
	10/27/93	NM	< 50	< 50	NA
	07/27/93	NM	< 50	< 50	NA
231GW10 (shallow)	06/07/07	0.43	< 50	< 50	< 300
	03/09/06	0.5	< 50	< 50	< 300
	03/22/05	0.1	< 50	< 50	< 300
	03/16/04	0.15	< 50	< 50	< 300
	08/14/03	0.11	< 50	< 50	< 300
	03/14/03	0.1	< 50	< 50	< 300
	12/05/02	0.1	< 50	< 50	< 300
	08/29/02	0.1	< 50	< 50	< 300
	06/04/02	0.25	< 50	< 50	< 300
	03/07/02	0.15	< 50	< 50 UJ	< 300 UJ
	12/03/01	0.2	< 50	< 50 UJ	< 300 UJ
	08/30/01	2.0	< 50	190 [3] Y,NJ	< 300 [3]
	05/11/01	3.4	< 50	< 50	< 300
	04/19/99	1.35	< 50	56	< 300
	01/25/99	0.72	< 50	< 50	< 300
	10/19/98	3.05 (J35)	< 50	< 50	< 300
	07/22/98	0.64	< 50	< 50	< 300
	04/23/98	0.26	< 50	< 50	< 300
	01/28/98	0.36	< 50	< 50	< 300
	10/22/97	0.31	< 50	< 50	< 300
	07/23/97	0.18	< 50	< 50	< 300
	04/23/97	0.4	< 50	< 50	< 300
	01/29/97	0.23	< 50	< 50	< 300
	10/10/96	NM	< 50	110 (J25)	< 300
	07/16/96	NM	< 50	< 50	300 (U6)
	05/03/96	NM	< 50	< 50	< 300 (U12)
	02/06/96	NM	< 50	< 50	< 300
	11/06/95	NM	< 50	< 50	< 300
	08/11/95	NM	< 50	< 50	< 300
	04/19/95	NM	< 50	< 50	NA
	01/24/95	NM	< 50	54 (J25)	NA
	11/11/94	NM	< 50	< 50	NA
	08/18/94	NM	< 50	56 (J25)	NA
	04/27/94	NM	< 50	< 50	NA
	01/31/94	NM	< 50	57 (J25)	NA
	10/27/93	NM	< 50	< 50	NA
	07/26/93	NM	< 50	< 50	NA
231GW11 (shallow)	06/07/07	0.40	< 50	< 50	< 300
	03/15/06	1.85	< 50	< 50	< 300
	04/05/05	0.2	< 50	< 50	< 300
	03/18/04	0.1	< 50	< 50	< 300
	08/14/03	0.2	< 50	77 Y	< 300
	03/14/03	2.1	< 50	< 50	< 300
	12/04/02	0.4	< 50	< 50	< 300
	08/30/02	1.8	< 50	< 50	< 300
	05/30/02	0.7	< 50	< 50	< 300
	03/07/02	0.7	< 50	< 50	< 300
	11/29/01	1	< 50	< 50	< 300

Table A-10-2
Summary of Dissolved Oxygen Measurements and Results of TPH Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	Field	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		**--**	**443**	**443**	**443**
231GW11 (shallow)	08/30/01	1.8	< 50	< 50 [3]	< 300 [3]
	05/09/01	3.9	< 50	< 50	< 300
	04/13/99	1.01	< 50	< 50	< 300
	01/11/99	1.43 (J35)	< 50	< 50	< 300
	10/12/98	4.32 (J35)	< 50	< 50	< 300
	07/13/98	1.38	< 50	< 50	< 300
	04/21/98	1.19 (J35)	< 50	< 50	< 300
	01/26/98	1.03 (J35)	< 50	< 50	< 300
	10/21/97	0.41	< 50	< 50	< 300
	07/21/97	0.46	< 50	< 50	< 300
	04/21/97	0.43	< 50	< 50	< 300
	01/28/97	0.59	< 50	< 50	< 300
	10/08/96	NM	< 50	< 50	< 300 (U6)
	07/16/96	NM	< 50	< 50	< 300
	05/03/96	NM	< 50	< 50	< 300 (U12)
	02/13/96	NM	< 50	< 50	< 300
	11/08/95	NM	< 50	< 50	< 300
	08/14/95	NM	< 50	< 50	< 300
	04/19/95	NM	< 50	< 50	NA
	01/24/95	NM	< 50	< 50	NA
	11/11/94	NM	< 50	< 50	NA
	08/17/94	NM	< 50	< 50	NA
	04/26/94	NM	< 50	< 50	NA
	02/07/94	NM	< 50	< 50	NA
	10/28/93	NM	< 50	< 50	NA
	07/26/93	NM	< 50	< 50	NA
231GW13 (deep)	06/05/07	0.38	< 50	< 50	< 300
DUP0605072B	06/05/07	--	< 50	< 50	< 300
	03/14/06	0.37	< 50	< 50	< 300
	04/05/05	0.1	< 50	< 50	< 300
	03/18/04	0.81	< 50	< 50	< 300
	08/14/03	0.2	< 50	< 50	< 300
	03/17/03	0.6	< 50	< 50	< 300
	12/05/02	0.7	< 50	< 50	< 300
	08/30/02	1	< 50	< 50	< 300
	05/30/02	0.8	< 50	< 50	< 300
	03/06/02	1	< 50	< 50	< 300
	11/28/01	1.5	< 50	< 50	< 300
	08/29/01	3.8	< 50	< 50 [3]	< 300 [3]
	05/09/01	4	< 50	< 50	< 300
	04/16/99	0.24	< 50	< 50	< 300 (U6)
	01/14/99	0.13	< 50	< 50	< 300
	10/15/98	0.93	< 50	< 50	< 300
	07/16/98	1.13	< 50	< 50	< 300
	04/21/98	0.74	< 50	< 50	< 300
	01/26/98	0.49	< 50	< 50	< 300
	10/20/97	0.09	< 50	< 50	< 300
	07/21/97	0.45	< 50	< 50	< 300
	04/21/97	0.51	< 50	< 50	< 300
	01/27/97	0.0	< 50	< 50	< 300
	10/07/96	NM	< 50	< 50	< 300 (U6)
	07/10/96	NM	< 50	< 50	< 300
	04/29/96	NM	< 50	< 50	< 300
	02/06/96	NM	< 50	< 50	< 300

Table A-10-2
Summary of Dissolved Oxygen Measurements and Results of TPH Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	Field	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	**443**	**443**	**443**
231GW15 (intermediate)	11/03/95	NM	< 50	< 50	< 300
	08/15/95	NM	< 50	< 50	< 300
	04/10/95	NM	NA	< 50	NA
	06/07/07	0.63	< 50	< 50	< 300
	03/14/06	0.29	< 50	< 50	< 300
	04/05/05	0.3	< 50	< 50	< 300
	03/18/04	0.51	< 50	< 50	< 300
	08/14/03	0.1	< 50	< 50	< 300
	03/17/03	0.7	< 50	< 50	< 300
	12/04/02	0.4	< 50	< 50	< 300
	08/30/02	1.4	< 50	< 50	< 300
	05/30/02	0.9	< 50	< 50	< 300
	03/05/02	0.5	< 50	< 50	< 300
	11/28/01	1.2	< 50	< 50	< 300
	08/30/01	1.5	< 50	< 50 [3]	< 300 [3]
	05/09/01	4.2	< 50	< 50	< 300
	04/16/99	0.25	< 50	< 50	< 300
	01/14/99	0.19	< 50	< 50	< 300
	10/15/98	0.6	< 50	< 50	< 300
	07/16/98	0.34	< 50	< 50	< 300
	04/21/98	0.19	< 50	< 50	< 300
	01/26/98	0.71	< 50	< 50	< 300
	10/20/97	0.2	< 50	< 50	< 300
	07/21/97	0.35	< 50	< 50	< 300
	04/21/97	0.25	< 50	< 50	< 300
	01/27/97	0.15	< 50	< 50	< 300
	10/07/96	NM	< 50	< 50	< 300 (U6)
	07/10/96	NM	< 50	< 50	< 300
	04/29/96	NM	< 50	< 50	< 300
	02/06/96	NM	< 50	< 50	< 300
	11/03/95	NM	< 50	< 50	< 300
	08/16/95	NM	< 50	< 50	< 300
	04/07/95	NM	NA	< 50	NA
231GW16 (shallow)	06/07/07	0.25	< 50	< 50	< 300
	03/09/06	0.24	< 50	< 50	< 300
	03/22/05	0.1	< 50	< 50	< 300
	03/16/04	0.11	< 50	< 50	< 300
	08/14/03	0.06	< 50	< 50	< 300
	03/14/03	0.04	< 50	< 50	< 300
	12/05/02	0.11	< 50	< 50	< 300
	09/04/02	0.17	< 50	< 50	< 300
	06/04/02	0.2	< 50	< 50	< 300
	03/08/02	1.5	< 50	< 50	< 300
DUP0308023A	03/08/02	--	< 50	< 50	< 300
	12/04/01	0.7	< 50	< 50	< 300
	09/04/01	0.98	< 50	99 [3] Y,NJ	< 300 [3]
	05/14/01	1.53	< 50	< 50	< 300
	04/16/99	0.37	< 50	120 (J25)	< 300
	01/14/99	0.34	< 50	< 50	< 300
	10/15/98	0.82	< 50	< 50	< 300
	07/16/98	0.8	< 50	60 (J25)	< 300
	04/21/98	0.74	< 50	< 50	< 300
	01/26/98	3.27 (J35)	< 50	< 50	< 300
	10/20/97	0.08 (J35)	< 50	< 50	< 300
	07/21/97	0.28 (J35)	< 50	< 50	< 300
	04/24/97	0.44 (J35)	< 50	< 50	< 300

Table A-10-2
Summary of Dissolved Oxygen Measurements and Results of TPH Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	Field	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	**443**	**443**	**443**
231GW16 (shallow)	01/30/97	0.26 (J35)	< 50	< 50	< 300
	10/10/96	NM	< 50	< 50	< 300
	07/15/96	NM	< 50	< 50	< 300
	05/02/96	NM	< 50	< 50	< 300 (U6)
	02/13/96	NM	< 50	< 50	< 300 (U12)
	11/03/95	NM	< 50	< 50	< 300
231GW17 (deep)	06/07/07	0.28	< 50	< 50	< 300
	03/15/06	0.87	< 50	< 50	< 300
	04/05/05	2.4	< 50	< 50	< 300
	03/18/04	0.8	< 50	< 50	< 300
	08/18/03	1.2	< 50	74 HY	< 300
	03/14/03	2.6	< 50	< 50	< 300
	12/06/02	4	< 50	< 50	< 300
	08/30/02	0.7	< 50	< 50	< 300
	05/31/02	3.1	< 50	< 50	< 300
	03/07/02	3	< 50	< 50 UJ	< 300 UJ
	11/29/01	6.4	< 50	< 50	< 300
	08/30/01	2.3	< 50	85 [3] Y,NJ	< 300 [3]
	05/11/01	5.2	< 50	< 50	< 300
	04/15/99	4.06 (J35)	< 50	< 50	< 300
	04/15/99	--	< 50	< 50	NA
	01/13/99	4.27 (J35)	< 50	< 50	< 300
	10/14/98	NM	< 50	< 50	< 300
	07/15/98	6.66 (J35)	< 50	< 50	< 300
	04/20/98	3.86 (J35)	< 50	< 50	< 300
	01/27/98	4.22 (J35)	< 50	< 50	< 300
	10/21/97	3.18 (J35)	< 50	< 50	< 300
	07/22/97	3.92 (J35)	< 50	< 50	< 300
	04/22/97	3.12 (J35)	< 50	< 50	< 300
	01/28/97	3.65 (J35)	< 50	< 50	< 300
	10/08/96	NM	< 50	< 50	< 300 (U6)
	07/11/96	NM	< 50	< 50	< 300
	04/30/96	NM	< 50	< 50	< 300
	02/07/96	NM	< 50	< 50	< 300
	11/06/95	NM	< 50	< 50	< 300
	08/16/95	NM	< 50	< 50	< 300
	04/10/95	NM	< 50	< 50	NA
231GW18 (intermediate)	06/07/07	0.81	< 50	< 50	< 300
	03/15/06	0.53	< 50	< 50	< 300
	04/05/05	0.9	< 50	< 50	< 300
	03/18/04	1	< 50	< 50	< 300
	08/14/03	0.4	< 50	< 50	< 300
	03/14/03	1.2	< 50	< 50	< 300
	12/05/02	1.9	< 50	< 50	< 300
	09/03/02	1.5	< 50	< 50	< 300
	05/31/02	1.7	< 50	< 50	< 300
	03/07/02	1.8	< 50	< 50	< 300
	11/29/01	4	< 50	< 50	< 300
	08/30/01	1.8	< 50	54 [3] Y,NJ	< 300 [3]
	05/11/01	4.1	< 50	< 50	< 300
	04/15/99	3.27 (J35)	< 50	< 50	< 300
	01/13/99	3.46 (J35)	< 50	< 50	< 300
	10/14/98	4.99	< 50	< 50	< 300
	07/15/98	5.19	< 50	< 50	< 300

Table A-10-2
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Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	Field	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	**443**	**443**	**443**
231GW18 (intermediate)	04/20/98	3.25	< 50	< 50	< 300
	01/27/98	3.74	< 50	< 50	< 300
	10/21/97	2.92	< 50	< 50	< 300
	07/22/97	3.28	< 50	< 50	< 300
	04/22/97	3.58	< 50	< 50	< 300
	01/28/97	3.02	< 50	< 50	< 300
	10/08/96	NM	< 50	< 50	< 300
	07/11/96	NM	< 50	< 50	< 300
	04/30/96	NM	< 50	< 50	< 300
	02/07/96	NM	< 50	< 50	< 300
	11/06/95	NM	< 50	< 50	< 300
	08/17/95	NM	< 50	< 50	< 300
	04/10/95	NM	NA	< 50	NA
231GW19 (shallow)	06/07/07	NM	< 50	< 50	< 300
	03/16/06	0.37	< 50	65 HY	< 300
	04/05/05	0.2	< 50	< 50	< 300
	03/18/04	0.92	< 50	72 HY	370
	08/14/03	0.6	< 50	< 50	< 300
	03/14/03	0.1	< 50	< 50	< 300
	12/05/02	0.9	< 50	< 50	< 300
	08/30/02	0.8	< 50	< 50	< 300
	05/30/02	1.7	< 50	< 50	< 300
	03/07/02	1.5	< 50	< 50	< 300
	11/28/01	1	< 50	< 50	< 300
	08/29/01	1.4	< 50	59 [3] Y,NJ	< 300 [3]
	05/09/01	1.5	< 50	< 50	< 300
	04/15/99	0.16	< 50	< 50	< 300
	01/13/99	0.39	< 50	< 50	< 300
	10/14/98	0.7	< 50	< 50	< 300
	07/15/98	0.26	< 50	< 50	< 300
	04/20/98	0.39	< 50	< 50	< 300
	01/27/98	0.29	< 50	< 50	< 300
	10/20/97	0.38	< 50	< 50	< 300
	07/22/97	0.15	< 50	< 50	< 300
	04/21/97	0.53	< 50	< 50	< 300
	01/27/97	0.16	< 50	< 50	< 300
	10/07/96	NM	< 50	< 50	< 300
	07/10/96	NM	< 50	< 50	< 300
	04/29/96	NM	< 50	< 50	< 300
	02/06/96	NM	< 50	< 50	< 300
	11/06/95	NM	< 50	< 50	< 300
	08/17/95	NM	< 50	< 50	< 300
	04/10/95	NM	NA	< 50	NA
231GW20 (deep)	06/05/07	0.31	< 50	< 50	< 300
DUP0605072A	06/05/07	--	< 50	< 50	< 300
	03/15/06	0.28	< 50	< 50	< 300
	04/06/05	0.1	< 50	< 50	< 300
	03/18/04	1.02	< 50	< 50	< 300
	08/18/03	0.1	< 50	91 HY	< 300
	03/18/03	0.4	< 50	< 50	< 300
	12/06/02	0.5	< 50	< 50	< 300
	09/03/02	0.2	< 50	< 50	< 300
	05/31/02	0.9	< 50	< 50	< 300
	03/07/02	4	< 50	< 50	< 300

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Summary of Dissolved Oxygen Measurements and Results of TPH Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	Field	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	**443**	**443**	**443**
231GW20	11/29/01	5.8	< 50	< 50	< 300
(deep)	09/04/01	2.8	< 50	< 50 [3]	< 300 [3]
	05/11/01	5.8	< 50	< 50	< 300
	04/20/99	0.18	< 50	< 50	< 300
	01/20/99	1.4	< 50	< 50 (U12)	< 300
	10/20/98	0.51	< 50	< 50	< 300
	07/21/98	0.19	< 50	< 50	< 300
	04/23/98	0.33	< 50	< 50	< 300
	01/29/98	0.12	< 50	< 50	< 300
	10/22/97	0.4	< 50	68 (J25)	340 (J25)
	07/23/97	0.25	< 50	< 50	< 300
	04/23/97	0.2	< 50	< 50	< 300
	01/29/97	0.11	< 50	< 50	< 300
	10/09/96	NM	< 50	< 50	< 300 (U6)
	07/16/96	NM	< 50	< 50	< 300
	05/02/96	NM	< 50	< 50	< 300 (U12)
	02/13/96	NM	< 50	< 50	340 (J25, J32)
	11/08/95	NM	< 50	< 50	< 300
	08/17/95	NM	< 50	< 50	< 300
	04/11/95	NM	NA	100	NA
231GW21	06/07/07	0.28	**4,100**	180 LY	< 300
(shallow)	03/08/06	0.8	**3,100**	330 LY	< 300
DUP0308061A	03/08/06	--	**3,400**	**1,300 HLY**	**5,400**
231GW21CL	03/08/06	--	**3,600**	**1,200 J+**	< 300 U
	03/31/05	0.2	**2,900 Y**	**590 LY**	< 300
DUP0331052D	03/31/05	--	**1,700 Y**	420 LY	< 300
231GW21CL	03/31/05	--	**1,500**	**1,800**	430
	03/19/04	0.14	**4,100**	120 LY	< 300
	08/19/03	0.36	**4,700 H**	150 LY	< 300
DUP0819031B	08/19/03	--	**6,400 Z**	180 LY	< 300
	03/14/03	0.12	**3,400**	130 YL	< 300
	12/06/02	0.2	**6,100 Y**	260 YL	< 300
DUP1206021A	12/06/02	--	**5,900 Y**	210 YL	< 300
	09/04/02	0.44	**5,500**	170 YL	< 300
	06/04/02	0.18	**3,700**	200 YL	< 300
DUP0604023A	06/04/02	--	**3,800**	160 YL	< 300
	03/08/02	0.36	**2,100**	91 YL	< 300
	11/29/01	0.11	**2,700**	130 YL	< 300
	09/06/01	1.17	**6,100 Z**	**3,100 [3] YL,NJ**	< 300 [3]
	05/14/01	1.16	**8,600**	250 YL	< 300
	06/17/99	NM	**8,000 (J25)**	NA	NA
	04/20/99	0.42	< 50	**470 (J25)**	< 3,000
	01/20/99	0.91	**4,400 (J25)**	380 (J25, J12)	< 300
	10/20/98	0.68	**9,800 (J25)**	**750 (J25)**	< 300
	07/23/98	0.31	**10,000 (J25)**	**560 (J25)**	< 300
	05/01/98	0.43	**6,600 (J25)**	240 (J25)	< 300
	01/28/98	0.39	**6,500 (J25)**	**620 (J25)**	< 300
	10/27/97	1.26 (J35)	**4,800 (J25)**	280 (J25)	< 300
	07/24/97	0.19	**19,000 (J25)**	**630 (J25)**	< 300
	04/24/97	0.44	**16,000 (J25)**	**1,100 (J25)**	< 300
	01/30/97	0.24	**5,800 (J25)**	**840 (J25)**	< 300
	10/11/96	NM	**11,000 (J25)**	**810 (J25)**	< 300

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Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	Field	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	**443**	**443**	**443**
231GW21	07/17/96	NM	**18,000 (J25)**	**570 (J25)**	< 300
(shallow)	05/06/96	NM	**22,000**	**830 (J25)**	< 300
	02/12/96	NM	**13,000 (J25)**	**540 (J25)**	< 300 (U12)
	11/10/95	NM	**24,000 (J25)**	**970 (J25)**	< 300
	08/16/95	NM	**26,000 (J25)**	**1,100** (J25)	< 300
	04/24/95	NM	**16,000 (J25)**	**1,100 (J25)**	NA
	04/12/95	NM	NA	**4,700**	NA
231GW22	06/07/07	0.26	**11,000**	210 LY	< 300
(shallow)	03/09/06	0.8	**8,400**	300 LY	< 300
DUP0309061A	03/09/06	--	**14,000 Z**	330 LY	< 300
	03/23/05	0.20	**18,000 Z**	130 LY	< 300
DUP0323052A	03/23/05	--	**16,000 Z**	120 LY	300 Y
	03/19/04	0.2	**25,000**	89 LY	< 300
DUP0319041A	03/19/04	--	**24,000 Z**	100 LY	< 300
231GW22CL	03/19/04	--	**4,700**	< 48	< 240
	08/19/03	0.2	**7,900 Z**	110 LY	< 300
DUP0819031A	08/19/03	--	**17,000 Z**	150 LY	< 300
231GW22CL	08/19/03	--	**7,600**	< 50	< 250
	03/17/03	0.18	**5,900**	**540 YL**	< 300
DUP0317031A	03/17/03	NA	**5,600 Z**	350 YL	< 300
231GW22CL	03/17/03	NA	**8,000**	< 50	270
	12/06/02	0.14	**3,400 YZ**	170 YL	< 300
	09/04/02	0.29	**6,700**	70 YL	< 300
DUP0904021A	09/04/02	--	**7,000**	81 YL	< 300
231GW22CL	09/04/02	--	**7,200 g**	120 ndp	< 500
	06/05/02	0.29	**2,400 Z**	< 50	< 300
DUP0605023B	06/05/02	--	**2,400 Z**	51 YL	< 300
	03/08/02	1.4	**6,400 Z**	110 YL	< 300
DUP0308023B	03/08/02	--	**6,600 Z**	73 YL	< 300
231GW22CL	03/08/02	--	260	< 50 UJ	< 500 **UJ**
	12/04/01	0.42	**9,000**	110 YL	< 300
DUP1204013A	12/04/01	--	**9,100**	120 YL	< 300
	09/04/01	0.77	**15,000 Z**	**5,800 [3] YL,NJ**	**740 [3] YL,NJ**
	05/14/01	1.54	**20,000**	110 YL	< 300
DUP0514011A	05/14/01	--	**19,000**	110 YL	< 300
	04/21/99	0.52	**15,000 (J25)**	**840 (J25)**	< 1,500
	01/21/99	0.37	**26,000 (J25)**	**550 (J25, J12)**	< 1,500
	10/21/98	5.57 (J35)	**14,000 (J25)**	**530 (J25, J13)**	< 320
	07/22/98	0.36	**21,000 (J25)**	**490 (J25)**	< 300
	04/27/98	0.16	**24,000 (J25)**	**760 (J25)**	< 300
	01/29/98	0.25	**29,000 (J25)**	**1,000 (J25)**	340 (J25)
	10/28/97	0.44	**19,000 (J25)**	**820 (J25)**	< 300
	07/28/97	0.38	**31,000 (J25)**	**700 (J25)**	< 300
	04/28/97	0.33	**36,000 (J25)**	**770 (J25)**	< 300
231GW23	06/07/07	0.42	< 50	< 50	< 300
(shallow)	03/15/06	0.45	< 50	< 50	< 300
	04/05/05	0.4	< 50	< 50	< 300
	03/18/04	0.1	< 50	< 50	< 300
	08/18/03	0.2	< 50	< 50	< 300
	03/17/03	1.8	< 50	< 50	< 300
	12/05/02	0.3	< 50	< 50	< 300
	09/03/02	0.3	< 50	< 50	< 300
	05/31/02	1.2	< 50	< 50	< 300

Table A-10-2
Summary of Dissolved Oxygen Measurements and Results of TPH Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	Field	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	**443**	**443**	**443**
231GW23 (shallow)	03/07/02	0.6	< 50	< 50 UJ	< 300 UJ
	11/29/01	2.2	< 50	< 50	< 300
	09/04/01	0.7	< 50	< 50 [3]	< 300 [3]
	05/14/01	1.1	< 50	< 50	< 300
	04/20/99	0.17	< 50	63	< 300
	01/20/99	0.19	< 50	< 50 (U12)	< 300
	10/22/98	0.74	< 50	< 57 (U13)	< 340
	07/23/98	0.32	**680 (R32)**	< 50	< 300
	04/28/98	0.13	< 50	< 50	< 300
	02/02/98	0.55	< 50	< 50	< 300
	10/23/97	0.13	< 50	< 50	< 300
	07/29/97	0.34	< 50	54 (R32)	< 300
	04/29/97	0.31	< 50	< 50	< 300
231GW24 (shallow)	06/07/07	0.68	< 50	< 50	< 300
	03/16/06	0.47	< 50	55 HY	< 300
	04/05/05	0.6	< 50	< 50	< 300
	03/18/04	0.4	< 50	< 50	< 300
	08/14/03	0.3	< 50	< 50	< 300
	03/17/03	0.5	< 50	< 50	< 300
	12/05/02	0.6	< 50	< 50	< 300
	08/30/02	1.4	< 50	< 50	< 300
	05/30/02	0.9	< 50	< 50	< 300
	03/06/02	0.7	< 50	< 50	< 300
	11/29/01	1.4	< 50	< 50	< 300
	08/29/01	3.9	< 50	< 50 [3]	< 300 [3]
	05/09/01	3	< 50	< 50	< 300
	04/19/99	0.39	< 50	< 50	< 300
	01/20/99	0.34	< 50	< 50 (U12)	< 300
	10/19/98	1.78	< 50	< 50	< 300
	07/20/98	0.89	< 50	< 50	< 300
	04/22/98	0.13	< 50	< 50	< 300
	02/03/98	0.82	< 50	< 50	< 300
	10/29/97	0.47	< 50	< 50	< 300
	07/30/97	0.46	< 50	< 50	< 300
	04/30/97	0.41	< 50	< 50	< 300
231GW25 (shallow)	06/07/07	0.63	< 50	< 50	< 300
	03/15/06	0.29	< 50	< 50	< 300
	04/06/05	0.5	< 50	< 50	< 300
	03/18/04	0.3	< 50	< 50	< 300
	08/18/03	0.1	< 50	64 Y	< 300
	03/17/03	4.3	< 50	< 50	< 300
	12/05/02	0.9	< 50	< 50	< 300
	09/03/02	0.4	< 50	< 50	< 300
	05/31/02	1.1	< 50	< 50	< 300
	03/07/02	1.5	< 50	< 50	< 300
	11/29/01	3.7	< 50	< 50	< 300
	09/04/01	0.9	< 50	200 [3] Y,NJ	< 300 [3]
	05/14/01	1.6	< 50	< 50	< 300
	04/19/99	0.23	< 50	88 (J25)	< 300
	01/21/99	0.18	< 50	< 50 (U12)	< 300
	10/19/98	2.05	< 50	< 50	< 300
	07/20/98	1.28	< 50	< 50	< 300

Table A-10-2
Summary of Dissolved Oxygen Measurements and Results of TPH Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	Field	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	**443**	**443**	**443**
231GW25 (shallow)	04/22/98	0.49	< 50	< 50	< 300
	02/03/98	0.25	< 50	< 50	< 300
	10/29/97	0.48	< 50	< 50	< 300
	07/30/97	0.46	< 50	< 50	< 300
	04/30/97	0.59	< 50	< 50	< 300
231GW26 (intermediate)	06/08/07	NM	< 50	< 50	< 300
	03/16/06	0.39	< 50	< 50	< 300
	04/06/05	0.3	< 50	< 50	< 300
	03/18/04	1.05	< 50	< 50	< 300
	08/15/03	0.2	< 50	130 HY	< 300
	03/18/03	0.7	< 50	< 50	< 300
	12/06/02	0.6	< 50	< 50	< 300
	09/04/02	0.5	< 50	< 50	< 300
	06/03/02	1	< 50	< 50	< 300
	03/07/02	2.2	< 50	< 50	< 300
	11/29/01	4	< 50	< 50	< 300
	09/04/01	0.6	< 50	< 50 [3]	< 300 [3]
	05/10/01	4.8	< 50	< 50	< 300
	04/21/99	1.2	< 50	< 50 (U9)	< 300
	01/21/99	0.83	< 50	< 50 (U12)	< 300
	10/21/98	3.28	< 50	< 54 (U13)	< 310
	07/22/98	1.02	440 (R32)	< 50	< 300
	04/27/98	0.96	< 50	< 50	< 300
	01/29/98	1.27	< 50	< 50	< 300
	10/28/97	2.13	< 50	< 50	< 300
	07/28/97	0.65	< 50	< 50	< 300
	04/28/97	0.81	57 (J25)	< 50	< 300
231GW27 (intermediate)	06/08/07	0.58	< 50	< 50	< 300
	03/15/06	0.43	< 50	< 50	< 300
	04/06/05	2.3	< 50	< 50	< 300
	03/19/04	0.9	< 50	< 50	< 300
	08/15/03	1	< 50	84 HY	< 300
	03/18/03	2.1	< 50	< 50	< 300
	12/10/02	2.8	< 50	< 50	< 300
	09/04/02	1.7	< 50	< 50	< 300
	06/03/02	1.6	< 50	< 50	< 300
	03/07/02	2.1	< 50	< 50 YH,J-	< 300 J-
	11/29/01	4	< 50	< 50	< 300
	09/04/01	1.7	< 50	**3,100 [3] YH,NJ**	**1,400 [3] YL,NJ**
DUP0904012A	09/04/01	--	< 50	**3,500 [3] YH,NJ**	**1,500 [3] YL,NJ**
231GW27CL	09/04/01	--	< 50	85 ndp	< 300
	05/10/01	4.1	< 50	79 YH	**460**
DUP0510011A	05/10/01	--	< 50	130 YH	**740**
231GW27CL	05/10/01	--	< 50	89 ndp	NA
	04/21/99	4.03	< 50	58 (J25)	< 300
	01/21/99	4.11	< 50	< 50 (U12)	< 300
	10/21/98	4.56	< 50	< 52 (U13)	< 310
	07/22/98	8.25	< 1,000	< 50	< 300
	04/27/98	4.66	< 50	< 50	< 300
	01/29/98	4.51	< 50	< 50	< 300
	10/28/97	4.77	< 50	< 50	< 300
	07/28/97	4.26	< 50	< 50	< 300
	04/28/97	5.77	< 50	< 50	< 300

Table A-10-2
Summary of Dissolved Oxygen Measurements and Results of TPH Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	Field	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	**443**	**443**	**443**
231GW28 (intermediate)	06/05/07	0.13	53 Y	< 50	< 300
	03/15/06	0.13	< 50	160 Y	< 300
	04/06/05	0.1	51 HY	< 50	< 300
	03/18/04	0.1	< 50	55 Y	< 300
	08/15/03	0.2	< 50	100 HY	< 300
	03/17/03	0.5	< 50	< 50	< 300
	12/06/02	0.5	< 50	< 50	< 300
	09/03/02	0.6	< 50	< 50	< 300
	05/31/02	1.2	< 50	< 50	< 300
	03/07/02	1.0	< 50	< 50	< 300
	12/04/01	1.94	< 50	< 50	< 300
	09/04/01	0.8	< 50	< 50 [3]	< 300 [3]
	05/09/01	1.6	< 50	< 50	< 300
	04/13/99	0.34	< 50	< 50	< 300
	01/11/99	0.17	< 50	< 50	< 300
	10/22/98	0.87	< 50	< 53 (U13)	< 310
	07/23/98	1.47	< 50	< 50	< 300
	04/28/98	1.52	< 50	< 50	< 300
	02/02/98	1.09	< 50	< 50	< 300
	10/27/97	1.5	< 50	< 50	< 300
	07/29/97	0.4	< 50	< 50	< 300
	04/29/97	0.51	< 50	< 50	< 300
231GW29 (intermediate)	06/06/07	0.38	< 50	< 50	< 300
DUP0606072A	06/06/07	--	< 50	< 50	< 300
231GW29CL	06/06/07	--	< 50	< 50	< 300
	03/16/06	0.58	< 50	57 HY	< 300
	04/06/05	0.2	< 50	< 50	< 300
	03/18/04	0.2	< 50	< 50	< 300
DUP0318043B	03/18/04	--	< 50	< 50	< 300
231GW29CL	03/18/04	--	< 50	< 51	< 250
	08/15/03	0.2	< 50	99 HY	< 300
	03/18/03	0.4	< 50	< 50 UJ	< 300
	12/06/02	0.2	< 50	< 50	< 300
	09/03/02	0.4	< 50	< 50	< 300
	06/03/02	0.9	< 50	< 50	< 300
	03/07/02	0.8	< 50	< 50	< 300
	11/29/01	2.0	< 50	< 50	< 300
	09/04/01	0.5	< 50	< 50 [3]	< 300 [3]
	05/11/01	6.1	< 50	< 50	< 300
	04/21/99	0.23	< 50	< 50	< 300
	01/21/99	0.33	< 50	71 (J25, J12)	< 300
	10/22/98	0.45	< 50	< 54 (U13)	< 320
	07/23/98	0.44	76 (J25)	< 50	< 300
	04/28/98	0.22	< 50	< 50	< 300
	02/02/98	0.45	< 50	< 50	< 300
	10/27/97	0.87	< 50	< 50	< 300
	07/29/97	0.14	< 50	75 (R32)	< 300
	04/29/97	0.87	< 50	< 50	< 300
231GW30 (shallow)	06/07/07	0.27	< 50	70 Y	< 300
	03/09/06	0.4	< 50	< 50	< 300
	03/22/05	0.2	< 50	< 50	< 300
	03/19/04	0.2	< 50	< 50	< 300
	08/14/03	0.09	< 50	340 HY	3,500
	03/14/03	0.09	< 50	< 50	< 300
	12/06/02	0.13	< 50	< 50	< 300
	09/04/02	0.43	< 50	< 50	< 300

Table A-10-2
Summary of Dissolved Oxygen Measurements and Results of TPH Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	Field	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	**443**	**443**	**443**
231GW30 (shallow)	06/04/02	0.19	< 50	< 50	< 300
	03/08/02	0.8	< 50	< 50	< 300
	12/04/01	1.51	< 50	< 50	< 300
	09/04/01	1.11	< 50	300 [3] Y,NJ	< 300 [3]
	05/14/01	1.26	< 50	< 50	< 300
	04/19/99	0.34	< 50	220 (J25)	< 300
	01/19/99	0.66	< 50	160 (J25, J12)	< 300
	10/19/98	7.88 (J35)	< 50	**450 (J25)**	< 300
	07/20/98	1.3	< 50	240 (J25)	< 300
	04/22/98	0.51	< 50	210 (J25)	< 300
	02/03/98	1.05	< 50	120 (J25)	< 300
	10/29/97	0.42	64 (J25)	340 (J25)	< 300
	07/30/97	0.15	< 50	380 (R32)	< 300
	04/30/97	0.81	< 50	250 (J25)	< 420
231PZ01 (shallow)	06/07/07	0.70	**13,000**	430 LY	< 300
	03/14/06	0.56	**9,300**	360 Y	< 300
	04/04/05	NM	**15,000**	430 LY	< 300
	03/19/04	0.3	**24,000 Z**	340 LY	< 300
	08/19/03	0.52	**6,900 Z**	370 LY	< 300
	03/17/03	0.12	**8,300 Z**	430 YL	< 300
	12/09/02	0.36	**22,000**	120 YL	< 300
	09/05/02	2.21	**18,000 Z**	180 YL	< 300
	06/05/02	0.27	**6,900 Z**	170 YL	< 300
	03/08/02	0.44	**8,600 Z**	340 YL	**< 600**
	11/30/01	0.7	**20,000**	220 YL	< 300
	09/06/01	0.8	**23,000 Z**	**12,000 [3] YL,NJ**	**1,700 [3] YL,NJ**
	05/15/01	1.68	**7,000**	230 YL	< 300
	04/14/99	NM	**62,000 (J25)**	**9,600 (J25)**	< 12,000
	01/12/99	9.18 (J35)	**37,000 (J25)**	**800 (J25)**	< 3,000
	10/13/98	5.98 (J35)	**25,000 (J25)**	**3,700 (J25)**	< 7,500
	07/14/98	NM	**44,000 (J25)**	**930 (J25)**	**850 (J25)**
	04/30/98	NM	**45,000 (J25)**	**810 (J25)**	< 300
	02/03/98	0.8	**93,000 (J25, J29)**	**2,600 (J25)**	**650 (J25)**
231PZ02 (shallow)	06/07/07	0.81	**840 L**	100 Y	< 300
	03/10/06	0.89	**780**	430 Y	< 300
	04/04/05	0.2	**1,100**	100 Y	< 300
	03/19/04	0.2	**1,100**	< 50	< 300
	08/19/03	0.35	**800 LZ**	< 50	< 300
	03/17/03	0.1	**690**	300 Y	< 300
	12/09/02	1.4	**1,700**	< 50	< 300
	09/05/02	2.5	**1,400 YZ**	< 50	< 300
	06/05/02	0.7	**740 YL**	< 50	< 300
	03/08/02	0.04	**610**	< 50	< 300
	11/30/01	1.11	**460**	< 50	< 300
	09/06/01	0.74	**1,900 Z**	**22,000 [3] YH,NJ**	**8,300 [3] YL,NJ**
	05/15/01	1.68	**470**	< 50	< 300
	04/14/99	0.49	**1,500 (J25)**	**3,200 (J25)**	**760 (J25, J5)**
	01/12/99	8.41 (J35)	**1,400 (J25)**	NA	NA
	10/13/98	7.81 (J35)	**1,800 (J25, J5)**	120 (J25)	**660 (J25)**
	07/14/98	11.6 (J35)	**1,400 (J25)**	310 (J25)	370 (J25)
	04/30/98	1.93	**620 (J25)**	**750 (J25, J7)**	< 300
	02/03/98	0.59	**1,300 (J25)**	< 50	< 300

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Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	Field	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	**443**	**443**	**443**
231PZ03	06/07/07	0.80	**4,900**	160 LY	< 300
	03/14/06	0.47	**4,000**	200 Y	< 300
(shallow)	04/04/05	0.2	**3,700**	180 Y	< 300
	03/19/04	0.2	**4,700**	98 LY	< 300
	08/21/03	0.11	**2,700**	120 YL	< 300
	03/17/03	0.16	**2,300**	380 YL	< 300
	12/06/02	0.11	**2,200 Y**	87 YL	< 300
	09/04/02	0.28	**2,500**	98 YL	< 300
	06/06/02	0.3	**2,300**	68 YL	< 300
	03/11/02	0.14	**3,200 Z**	83 YL	< 300
	11/30/01	0.18	**1,900**	140 YLH	**670**
	09/06/01	0.98	**1,900**	**2,100 [3] YL,NJ**	< 300 [3]
	05/15/01	1.8	**4,000**	99 YL	< 300
	01/12/99	0.44	**2,900 (J25)**	**1,100 (J25)**	< 300
	04/14/99	0.38	**4,000 (J25)**	390 (J25)	< 600
	10/13/98	0.94	**3,000 (J25)**	**470 (J25, J5)**	< 1,200
	07/14/98	0.23	**6,600 (J25)**	260 (J25)	< 300
	04/30/98	0.13	**5,000 (J25)**	**610 (J25)**	< 300
	02/03/98	2.21 (J35)	**12,000 (J25, J29)**	**1,400 (J25)**	< 1,500
231PZ04	06/07/07	0.51	**5,200**	190 LY	< 300
(shallow)	03/14/06	0.53	**5,300**	350 Y	< 300
	04/04/05	0.2	**6,100**	290 LY	< 300
	03/19/04	0.2	**7,000**	140 LY	< 300
	08/21/03	0.1	**3,000**	160 YL	< 300
	03/17/03	0.08	**4,700**	240 YL	< 300
	12/06/02	0.2	**4,500 Y**	160 YL	< 300
	09/04/02	0.2	**4,000**	170 YL	< 300
	06/06/02	0.24	**3,200**	140 YL	< 300
	03/08/02	0.12	**4,700**	120 YL	< 300
	11/30/01	0.91	**2,200**	130 YL	< 300
	09/06/01	1.02	**4,200 Z**	**2,200 [3] YL,NJ**	< 300 [3]
	05/15/01	2.6	**7,600**	190 YL	< 300
	04/14/99	2.27 (J35)	**11,000 (J25)**	**710 (J25)**	< 680
	01/11/99	8.71 (J35)	**8,500 (J25)**	370 (J25)	< 300
	10/12/98	8.03 (J35)	**7,600 (J25)**	< 50	< 300
	07/13/98	14.57 (J35)	**9,700 (J25)**	**460 (J25)**	< 300
	04/30/98	4.57 (J35)	**14,000 (J25)**	**770 (J25)**	< 300
	02/04/98	6.68 (J35)	**28,000 (J25)**	**1,400 (J25)**	< 300

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - From Table 4 of the CAP.
3 - TPH analysis was not run using the silica gel cleanup method 3630A, although it was marked on the chain of custody.
µg/L - micrograms per liter
mg/L - milligrams per liter
NA - Not analyzed
NM - Not measured
TPH - Total petroleum hydrocarbons
g - Hydrocarbon reported in the gasoline range does not match the gasoline standard.
H - Heavier hydrocarbons contributed to the quantitation.
L - Lighter hydrocarbons contributed to the quantitation.
ndp - Hydrocarbon reported does not match the pattern of the diesel standard.
NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
Y - Sample exhibits a fuel pattern that does not resemble the standard
Z - Sample exhibits unknown single peak or peaks.
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.
Bold numbers indicate concentrations which exceed cleanup levels.

Table A-10-3
Results of VOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	1,2,4-TMB	1,2-DCA	1,3,5-TMB	2-Phenyl-butane	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-form	Chloro-methane	Dichloro-methane	Ethyl-benzene	Isopropyl-benzene	MTBE	Naph-thalene	N-Butyl-Benzene	Propyl-benzene	Toluene	Total Xylenes	TCE	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	**0.38**	--	--	**1,500**	**1**	--	--	**80**	**1.3**	--	**43**	--	**13**	**300**	--	--	**150**	**130**	**2.7**	--
207GW03 (intermediate)	06/08/07	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/16/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	04/12/05	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/19/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	1.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/21/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/19/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	15	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/10/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	11	< 0.5	< 1	< 4	< 0.5	NA	< 0.5 UJ	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/03/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	06/03/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	1.3	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/11/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/30/01	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/30/01	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/14/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/13/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/11/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	< 2	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/12/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	< 2	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/09/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/04/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	< 2	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/05/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	< 2	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
231GW06 (intermediate)	06/05/07	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/15/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	04/04/05	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/18/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/14/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/17/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/04/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/03/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/30/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/05/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/29/01	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1 U	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/30/01	NA	< 0.5	NA	NA	< 10	0.4 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	1.4	1.3	< 0.5	ND
	05/09/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/20/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/20/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/20/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/21/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/23/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/27/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/22/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/23/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/23/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/29/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/10/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/15/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/02/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/07/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/09/95	NA	< 0.5	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 UY	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5 U	ND
	08/10/95	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	NA	NA	NA	NA	< 2.9	< 0.5	< 0.5	ND
	04/17/95	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/25/95	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/09/94	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/16/94	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/25/94	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/28/94	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND

Table A-10-3
Results of VOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	1,2,4-TMB	1,2-DCA	1,3,5-TMB	2-Phenyl-butane	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-form	Chloro-methane	Dichloro-methane	Ethyl-benzene	Isopropyl-benzene	MTBE	Naph-thalene	N-Butyl-Benzene	Propyl-benzene	Toluene	Total Xylenes	TCE	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	**0.38**	--	--	**1,500**	**1**	--	--	**80**	**1.3**	--	**43**	--	**13**	**300**	--	--	**150**	**130**	**2.7**	--
231GW09	06/05/07	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
(shallow)	12/05/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
DUP1205062B	12/05/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
231GW09CL	12/05/06	NA	< 0.5 U	NA	NA	< 10 U	< 0.5 U	< 1 U	< 5 U	< 0.5 U	< 1 U	< 4.5 U	< 0.5 U	NA	< 2 U	NA	NA	NA	< 0.5 U	< 1 U	< 0.5 U	ND
	08/15/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	05/24/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/15/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	11/29/05	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
DUP1129052A	11/29/05	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	08/31/05	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	06/01/05	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	04/04/05	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	12/17/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 1	ND
DUP1217042A	12/17/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 1	ND
	08/12/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/27/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
DUP0527042C	05/27/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
231GW09CL	05/27/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	ND
	03/18/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/15/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/17/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	0.6	< 0.5	< 0.5	ND
	12/04/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/30/02	NA	NA [3]	NA	NA	NA [3]	< 0.5	NA [3]	NA [3]	NA [3]	NA [3]	NA [3]	< 0.5	NA	< 2	NA	NA	NA	< 0.5	< 0.5	NA [3]	ND
	05/30/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/07/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/29/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 U	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/30/01	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 5	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/09/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4.5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/14/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/13/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/14/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/15/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/20/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/28/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/23/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/24/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/22/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/28/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/09/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/12/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	0.6	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	0.54	< 0.5	< 0.5	ND
	05/01/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/08/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	0.51	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/07/95	NA	< 0.5	NA	NA	< 10	< 0.5	< 0.5	< 5	0.68	< 0.5	< 4.5 UY	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5 U	ND
	08/10/95	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	0.57	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 2.7	< 0.5	< 0.5	ND
	04/18/95	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	0.53	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/23/95	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	0.52	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/10/94	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/18/94	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/27/94	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	1.3	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/04/94	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	0.64	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND

Table A-10-3
Results of VOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	1,2,4-TMB	1,2-DCA	1,3,5-TMB	2-Phenyl-butane	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-form	Chloro-methane	Dichloro-methane	Ethyl-benzene	Isopropyl-benzene	MTBE	Naph-thalene	N-Butyl-Benzene	Propyl-benzene	Toluene	Total Xylenes	TCE	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	**0.38**	--	--	**1,500**	**1**	--	--	**80**	**1.3**	--	**43**	--	**13**	**300**	--	--	**150**	**130**	**2.7**	--
231GW10 (shallow)	06/07/07	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/09/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/22/05	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/16/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/14/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/14/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/05/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/29/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	06/04/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/07/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/03/01	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/30/01	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/11/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4.5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/19/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/25/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/19/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/22/98	NA	< 0.5	NA	NA	NA	0.25	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	0.88	< 0.5	ND
	04/23/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/28/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/22/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/23/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/23/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/29/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/10/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/16/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	0.7	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/03/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/06/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/06/95	NA	< 0.5	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 UY	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5 U	ND
	08/11/95	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 1.3	< 0.5	< 0.5	ND
	04/19/95	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/24/95	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/11/94	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/18/94	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/27/94	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/31/94	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
231GW11 (shallow)	06/07/07	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/15/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	04/05/05	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/18/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/14/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/14/03	NA	< 0.5	NA	NA	< 10	0.1 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/04/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/30/02	NA	NA[3]	NA	NA	NA[3]	< 0.5	NA[3]	NA[3]	NA[3]	NA[3]	NA[3]	< 0.5	NA	< 2	NA	NA	NA	< 0.5	< 0.5	NA[3]	ND
	05/30/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/07/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/29/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 U	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/30/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/09/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/13/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/11/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/12/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/13/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/21/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/26/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/21/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND

Table A-10-3
Results of VOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	1,2,4-TMB	1,2-DCA	1,3,5-TMB	2-Phenyl-butane	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-form	Chloro-methane	Dichloro-methane	Ethyl-benzene	Isopropyl-benzene	MTBE	Naph-thalene	N-Butyl-Benzene	Propyl-benzene	Toluene	Total Xylenes	TCE	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	**0.38**	--	--	**1,500**	**1**	--	--	**80**	**1.3**	--	**43**	--	**13**	**300**	--	--	**150**	**130**	**2.7**	--
231GW11 (shallow)	07/21/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/21/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/28/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/08/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	1.3	< 0.5	< 0.5	ND
	07/16/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/03/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/13/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/08/95	NA	< 0.5	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 UY	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5 U	ND
	08/14/95	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 2.8	< 0.5	< 0.5	ND
	04/19/95	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/24/95	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/11/94	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/17/94	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/26/94	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/07/94	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
231GW13 (deep) DUP0605072B	06/05/07	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	06/05/07	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/14/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	04/05/05	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/18/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	NA [3]	< 0.5	ND
	08/14/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/17/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/05/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	1.3	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/30/02	NA	NA [3]	NA	NA	NA [3]	< 0.5	NA [3]	NA [3]	NA [3]	NA [3]	NA [3]	< 0.5	NA	< 2	NA	NA	NA	< 0.5	< 0.5	NA [3]	ND
	05/30/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/06/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/28/01	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/29/01	NA	< 0.5	NA	NA	< 10	0.8	< 1	< 0.5	< 0.5	< 1	< 4	0.8	NA	< 0.5	NA	NA	NA	3.7	4.4	< 0.5	ND
	05/09/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/16/99	NA	< 0.5	NA	NA [3]	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/14/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/15/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/16/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/21/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/26/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/20/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/21/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/21/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/27/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/07/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/10/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/29/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/06/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/03/95	NA	< 0.5	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 UY	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5 U	ND
	08/15/95	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 1.8	< 0.5	< 0.5	ND
231GW15 (intermediate)	06/07/07	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/14/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	04/05/05	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/18/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/14/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/17/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/04/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/30/02	NA	NA [3]	NA	NA	NA [3]	< 0.5	NA [3]	NA [3]	NA [3]	NA [3]	NA [3]	< 0.5	NA	2.8	NA	NA	NA	< 0.5	< 0.5	NA [3]	ND

Table A-10-3
Results of VOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	1,2,4-TMB	1,2-DCA	1,3,5-TMB	2-Phenyl-butane	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-form	Chloro-methane	Dichloro-methane	Ethyl-benzene	Isopropyl-benzene	MTBE	Naph-thalene	N-Butyl-Benzene	Propyl-benzene	Toluene	Total Xylenes	TCE	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	**0.38**	--	--	**1,500**	**1**	--	--	**80**	**1.3**	--	**43**	--	**13**	**300**	--	--	**150**	**130**	**2.7**	--
231GW15 (intermediate)	05/30/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/05/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/28/01	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	<0.5	< 0.5	< 0.5	ND
	08/30/01	NA	< 0.5	NA	NA	< 10	0.3 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	1.1	1	< 0.5	ND
	05/09/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/16/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/14/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/15/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/16/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/21/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/26/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/20/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/21/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/21/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/27/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/07/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/10/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/29/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/06/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/03/95	NA	< 0.5	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 UY	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5 U	ND
	08/16/95	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 1.7	< 0.5	< 0.5	ND
231GW16 (shallow)	06/07/07	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/09/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/22/05	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/16/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/14/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/14/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/05/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/04/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	06/04/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1.0	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/08/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
DUP0308023A	03/08/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/04/01	NA	< 0.5	NA	NA	< 10 UJ	0.3 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/04/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/14/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1	6.8	< 0.5	< 1	< 4.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/16/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/14/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/15/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/16/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	0.84	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/21/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/26/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/20/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/21/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/24/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/30/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/10/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/15/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	1.7	< 0.5	< 0.5	ND
	05/02/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/13/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/03/95	NA	< 0.5	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 UY	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5 U	ND

Table A-10-3
Results of VOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	1,2,4-TMB	1,2-DCA	1,3,5-TMB	2-Phenyl-butane	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-form	Chloro-methane	Dichloro-methane	Ethyl-benzene	Isopropyl-benzene	MTBE	Naph-thalene	N-Butyl-Benzene	Propyl-benzene	Toluene	Total Xylenes	TCE	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		**--**	**0.38**	**--**	**--**	**1,500**	**1**	**--**	**--**	**80**	**1.3**	**--**	**43**	**--**	**13**	**300**	**--**	**--**	**150**	**130**	**2.7**	**--**
231GW17 (deep)	06/07/07	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	2.1	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/15/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	2.6 J+	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	04/05/05	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	2.6	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/18/04	NA	< 0.5	NA	NA	< 10	0.2 J	< 1	< 0.5	2.9	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/18/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	2.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/14/03	NA	< 0.5	NA	NA	< 10	0.1 J	< 1	< 0.5	3.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/06/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	3.2	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/30/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	3.1	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/31/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	3.6	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/07/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	3.2	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/29/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 U	< 0.5	1.8	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/30/01	NA	< 0.5	NA	NA	< 10 UJ	0.4 J	< 1	< 0.5	1.3	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	1.2	< 0.5	< 0.5	ND
	05/11/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1 UJ	< 0.5	2.5	< 1	< 5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/15/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	3.6	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/13/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	2.7	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/14/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	2.3	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/15/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	3.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/20/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	3.6	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/27/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	3.9	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/21/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	2.8	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/22/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	2.6	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/22/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	3.3	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/28/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	3.2	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/08/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	3.2	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/11/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	3.3	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/30/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	2.7	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/07/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	3.1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/06/95	NA	< 0.5	NA	NA	< 10	< 0.5	< 0.5	< 5	2.9	< 0.5	< 4.5 UY	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5 U	ND
	08/16/95	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	2.2	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 2.1	< 0.5	< 0.5	ND
231GW18 (intermediate)	06/07/07	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	0.6	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/15/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	0.6 J+	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	04/05/05	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	0.6	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/18/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	0.8	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/14/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	0.6	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/14/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	0.7	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/05/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	0.8	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/03/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	0.8	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/31/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	1	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/07/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	0.9	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/29/01	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1 U	< 0.5	1	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/30/01	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	0.9	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/11/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1 UJ	< 0.5	0.7	< 1	< 5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/15/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	1.2	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/13/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	0.99	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/14/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	0.75	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/15/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	1.1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/20/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	1.1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/27/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	1.2	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/21/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	0.98	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/22/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	1.2	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/22/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	1.3	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND

Table A-10-3
Results of VOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	1,2,4-TMB	1,2-DCA	1,3,5-TMB	2-Phenyl-butane	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-form	Chloro-methane	Dichloro-methane	Ethyl-benzene	Isopropyl-benzene	MTBE	Naph-thalene	N-Butyl-Benzene	Propyl-benzene	Toluene	Total Xylenes	TCE	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		**--**	**0.38**	**--**	**--**	**1,500**	**1**	**--**	**--**	**80**	**1.3**	**--**	**43**	**--**	**13**	**300**	**--**	**--**	**150**	**130**	**2.7**	**--**
231GW18 (intermediate)	01/28/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	1.3	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/08/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	1.4	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/11/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	1.3	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/30/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	1.4	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/07/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	1.6	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/06/95	NA	< 0.5	NA	NA	< 10	< 0.5	< 0.5	< 5	1.4	< 0.5	< 4.5 UY	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5 U	ND
	08/17/95	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	1.2	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 1.2	< 0.5	< 0.5	ND
231GW19 (shallow)	06/07/07	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/16/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	04/05/05	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/18/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/14/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/14/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/05/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/30/02	NA	NA [3]	NA	NA	NA [3]	0.65	NA [3]	NA [3]	NA [3]	NA [3]	NA [3]	< 0.5	NA	2.6	NA	NA	NA	0.94	2	NA [3]	ND
	05/30/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/07/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/28/01	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/29/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/09/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/15/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/13/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/14/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/15/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/20/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/27/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/20/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/22/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/21/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/27/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/07/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/10/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/29/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/06/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/06/95	NA	< 0.5	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 UY	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5 U	ND
	08/17/95	NA	NA	NA	NA	< 10	**2**	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 2.3	< 0.5	< 0.5	ND
231GW20 (deep) DUP0605072A	06/05/07	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	06/05/07	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/15/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	04/06/05	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/18/04	NA	< 0.5	NA	NA	< 10	0.1 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/18/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/18/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/06/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	16	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/03/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/31/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/07/02	NA	< 0.5	NA	NA	< 10	0.2 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/29/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 U	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/04/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/11/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/20/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND

Table A-10-3
Results of VOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	1,2,4-TMB	1,2-DCA	1,3,5-TMB	2-Phenyl-butane	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-form	Chloro-methane	Dichloro-methane	Ethyl-benzene	Isopropyl-benzene	MTBE	Naph-thalene	N-Butyl-Benzene	Propyl-benzene	Toluene	Total Xylenes	TCE	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	**0.38**	--	--	**1,500**	**1**	--	--	**80**	**1.3**	--	**43**	--	**13**	**300**	--	--	**150**	**130**	**2.7**	--
231GW20 (deep)	01/20/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/20/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/21/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	0.6	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/23/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/29/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/22/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/23/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/23/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/29/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/09/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/16/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	**3**	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/02/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/13/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/08/95	NA	< 0.5	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 UY	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5 U	ND
	08/17/95	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 2.3	< 0.5	< 0.5	ND
231GW21 (shallow)	06/07/07	NA	< 1	NA	NA	< 20	**130**	< 2	< 1	< 1	< 2	< 8	3.3	NA	< 1	NA	NA	NA	5.5	3.6	< 1	ND
	03/08/06	NA	< 1	NA	NA	< 20	**89**	< 2	< 1	< 1	< 2	< 8	4	NA	< 1	NA	NA	NA	3.4	1.8	< 1	ND
DUP0308061A	03/08/06	NA	< 1	NA	NA	< 20	**96**	< 2	< 1	< 1	< 2	< 8	4.3	NA	< 1	NA	NA	NA	3.5	1.9	< 1	ND
231GW21CL	03/08/06	NA	< 0.5 U	NA	NA	< 10 U	**110 D**	< 1 UJ	< 5 U	2.7	< 1 U	< 4.5 U	4.8	NA	< 2 U	NA	NA	NA	3.7	3	< 0.5 U	ND
	03/31/05	NA	< 0.5	NA	NA	< 10	**100**	< 1	< 0.5	< 0.5	< 1	< 4	6.2	NA	< 0.5	NA	NA	NA	2.8	2.4	< 0.5	ND
DUP0331052D	03/31/05	NA	< 0.5	NA	NA	10 J-	**45**	< 1	< 0.5	< 0.5	< 1 UJ	< 4	3.0	NA	< 0.5	NA	NA	NA	1.3	1	< 0.5	ND
231GW21CL	03/31/05	NA	< 0.5 U	NA	NA	34	**63 D**	< 1 U	< 5 U	< 0.5 U	< 1 U	< 4.5 U	4.0	NA	< 2 U	NA	NA	NA	1.5	1.1	< 0.5 U	ND
	03/19/04	NA	< 0.7	NA	NA	< 14	**250**	< 1.4	< 0.7	< 0.7	< 1.4	< 5.7	15	NA	< 0.7	NA	NA	NA	3.2	1.8	< 0.7	ND
	08/19/03	NA	< 1	NA	NA	< 20	**460**	< 2	< 1	< 1	< 2	< 8	8.1	NA	< 1	NA	NA	NA	4	5.5	< 1	ND
DUP0819031B	08/19/03	NA	< 1.7	NA	NA	< 33	**470**	< 3.3 UJ	< 1.7	< 1.7	< 3.3	< 13	7.4	NA	< 1.7	NA	NA	NA	3.6	7.5	< 1.7	ND
	03/14/03	NA	< 1	NA	NA	< 20	**320**	< 2	< 1	< 1	< 2	< 8	15	NA	< 1	NA	NA	NA	3.1	2.7	< 1	ND
	12/06/02	NA	< 1.7	NA	NA	< 33 UJ	**400**	< 3.3	< 1.7	< 1.7	< 3.3	< 13	12	NA	< 1.7	NA	NA	NA	3.6	1.8	< 1.7	ND
DUP1206021A	12/06/02	NA	< 1.3	NA	NA	< 25 UJ	**420**	< 2.5	< 1.3	< 1.3	< 2.5	< 10	12	NA	< 1.3	NA	NA	NA	3.9	2	< 1.3	ND
	09/04/02	NA	< 2.5	NA	NA	< 50	**530**	< 5	< 2.5	< 2.5	< 5	< 20	11	NA	< 2.5	NA	NA	NA	5.6	3.3	< 2.5	ND
	06/04/02	NA	< 1.7	NA	NA	< 33 UJ	**430**	< 3.3	< 1.7	< 1.7	< 3.3	< 13	9.4	NA	< 1.7	NA	NA	NA	3.5	< 1.7	< 1.7	ND
DUP0604023A	06/04/02	NA	< 1.7	NA	NA	< 33 UJ	**470**	< 3.3	< 1.7	< 1.7	< 3.3	< 13	9.8	NA	< 1.7	NA	NA	NA	3.4	< 1.7	< 1.7	ND
	03/08/02	NA	< 0.5	NA	NA	< 10	**130**	< 1	< 0.5	< 0.5	< 1	< 4	6.7	NA	< 0.5	NA	NA	NA	1.5	1.1	< 0.5	ND
	11/29/01	NA	< 0.8	NA	NA	< 17	**270**	< 1.7	< 0.8	< 0.8	< 1.7	< 6.7	10	NA	< 0.8	NA	NA	NA	2	1	< 0.8	ND
	09/06/01	NA	< 3.6	NA	NA	< 71	**1,100**	< 7.1	< 3.6	< 3.6	< 7.1	< 29	28	NA	< 3.6	NA	NA	NA	4.8	< 3.6	< 3.6	ND
	05/14/01	< 4.2	NA	< 4.2	14	< 83 UJ	**1,100**	< 8.3 UJ	< 4.2	< 4.2	< 8.3	< 42	33	130	< 4.2 UJ	5.2	31	310	4.6	< 4.2	< 4.2	ND
	06/17/99	NA	**60**	NA	NA	NA	**2,000**	< 50	< 500	< 100	< 50	< 450 Y	**63**	NA	NA	NA	NA	NA	< 50	< 50	< 50	ND
	04/20/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/20/99	NA	< 25	NA	NA	NA	**840**	< 25	< 250	< 25	< 25	< 220 Y	< 25	NA	NA	NA	NA	NA	< 25	< 25	< 25	ND
	10/20/98	NA	**84**	NA	NA	NA	**2,600**	< 62	< 620	< 62	< 62	< 560 Y	**120**	NA	NA	NA	NA	NA	< 62	< 62	< 62	ND
	07/23/98	NA	**81**	NA	NA	NA	**3,000**	< 50	< 500	< 50	< 50	< 450 Y	< 50	NA	NA	NA	NA	NA	< 50	**160**	< 50	ND
	05/01/98	NA	**89**	NA	NA	NA	**2,400**	< 50	< 500	< 50	< 50	< 450 Y	**340**	NA	NA	NA	NA	NA	< 50	< 50	< 50	ND
	01/28/98	NA	< 50	NA	NA	NA	**2,000**	< 50	< 500	< 50	< 50	< 450 Y	**310**	NA	NA	NA	NA	NA	< 50	< 50	< 50	ND
	10/27/97	NA	< 50	NA	NA	NA	**2,400**	< 50	< 500	< 50	< 50	< 450 Y	**160**	NA	NA	NA	NA	NA	< 50	< 50	< 50	ND
	07/24/97	NA	< 120	NA	NA	NA	**3,900**	< 120	< 1,200	< 120	< 120	< 1,100 Y	**400**	NA	NA	NA	NA	NA	< 120	< 120	< 120	ND
	04/24/97	NA	< 120	NA	NA	NA	**4,800**	< 120	< 1,200	< 120	< 120	< 1,100 Y	**780**	NA	NA	NA	NA	NA	< 120	< 120	< 120	ND
	01/30/97	NA	< 0.5	NA	NA	NA	**2,900**	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	**250**	NA	NA	NA	NA	NA	6.6	43.6	< 0.5	ND
	10/11/96	NA	NA	NA	NA	< 200 R	**6,200**	< 10	< 100	< 10	< 10	< 90 Y	**970**	NA	NA	NA	NA	NA	17	130	< 10	ND
	07/17/96	NA	NA	NA	NA	< 2,500 R	**6,200**	< 120	< 1,200	< 120	< 120	< 1,100 Y	**890**	NA	NA	NA	NA	NA	< 120	**180**	< 120	ND
	05/06/96	NA	NA	NA	NA	< 2,500 R	**4,700**	< 120	< 1,200	< 120	< 120	< 1,100 Y	**1,200**	NA	NA	NA	NA	NA	< 120	**450**	< 120	ND
	02/12/96	NA	NA	NA	NA	< 1,000 R	**2,000**	< 50	< 500	< 50	< 50	< 450 Y	**600**	NA	NA	NA	NA	NA	< 50	**350**	< 50	ND
	11/10/95	NA	< 3	NA	NA	< 50	**5,100**	< 3	< 30	< 3	< 3	< 18 UY	**1,700**	NA	NA	NA	NA	NA	20	**960**	< 3 U	ND
	08/16/95	NA	NA	NA	NA	< 2,500 R	**6,100**	< 120	< 1,200	< 120	< 120	< 1,100 Y	**2,200**	NA	NA	NA	NA	NA	< 120	**1,200**	< 120	ND
	04/24/95	NA	NA	NA	NA	< 1,200 R	**4,100**	< 62	< 620	< 62	< 62	< 560 Y	**990**	NA	NA	NA	NA	NA	< 62	**810**	< 62	ND

Table A-10-3
Results of VOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	1,2,4-TMB	1,2-DCA	1,3,5-TMB	2-Phenyl-butane	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-form	Chloro-methane	Dichloro-methane	Ethyl-benzene	Isopropyl-benzene	MTBE	Naph-thalene	N-Butyl-Benzene	Propyl-benzene	Toluene	Total Xylenes	TCE	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	**0.38**	--	--	**1,500**	**1**	--	--	**80**	**1.3**	--	**43**	--	**13**	**300**	--	--	**150**	**130**	**2.7**	--
231GW22	06/07/07	NA	< 25	NA	NA	< 500	**2,800**	< 50	< 25	< 25	< 50	< 200	**100**	NA	< 25	NA	NA	NA	31	**280**	< 25	ND
(shallow)	03/09/06	NA	< 31	NA	NA	< 630	**4,400**	< 63	< 31	< 31	< 63	< 250	**230**	NA	< 31	NA	NA	NA	60	**550**	< 31	ND
DUP0309061A	03/09/06	NA	< 31	NA	NA	< 630	**4,300**	< 63	< 31	< 31	< 63	< 250	**180**	NA	< 31	NA	NA	NA	49	**400**	< 31	ND
	03/23/05	NA	< 31	NA	NA	< 630	**4,200**	< 63	< 31	< 31	< 63	< 250	**210**	NA	< 31	NA	NA	NA	75	**480**	< 31	ND
DUP0323052A	03/23/05	NA	< 36	NA	NA	< 710	**4,300**	< 71	< 36	< 36	< 71	< 290	**220**	NA	< 36	NA	NA	NA	74	**510**	< 36	ND
	03/19/04	NA	< 13	NA	NA	< 250	**5,600**	< 25	< 13	< 13	< 25	< 100	**570**	NA	< 13	NA	NA	NA	**260**	**1,400**	< 13	ND
DUP0319041A	03/19/04	NA	< 20	NA	NA	< 400	**5,200**	< 40	< 20	< 20	< 40	< 160	**530**	NA	< 20	NA	NA	NA	**280**	**1,300**	< 20	ND
231GW22CL	03/19/04	NA	< 100	NA	NA	< 2,000 R	**5,300**	< 200	< 1,000	< 100	< 100	< 100	**580**	NA	< 100	NA	NA	NA	**250**	**1,600**	**160**	ND
	08/19/03	NA	< 17	NA	NA	< 330	**4,800**	< 33	< 17	< 17	< 33	< 130	**200**	NA	< 17	NA	NA	NA	140	**890**	< 17	ND
DUP0819031A	08/19/03	NA	< 17	NA	NA	< 330	**4,300**	< 33 UJ	< 17	< 17	< 33	< 130	**160**	NA	< 17	NA	NA	NA	120	**760**	< 17	ND
231GW22CL	08/19/03	NA	< 100	NA	NA	< 2,000 R	**4,600**	< 200	< 1,000	< 100	< 100	< 100	**200**	NA	< 100	NA	NA	NA	140	**860**	< 100	ND
	03/17/03	NA	< 8.3	NA	NA	< 170 UJ	**3,900**	< 17	< 8.3	< 8.3	< 17	< 67	**370**	NA	< 8.3	NA	NA	NA	150	**1,100**	< 8.3	ND
DUP0317031A	03/17/03	NA	< 17	NA	NA	< 330	**4,000**	< 100	< 17	< 17	< 33	< 130	**340**	NA	< 17	NA	NA	NA	**160**	**1,000**	< 17	ND
231GW22CL	03/17/03	NA	< 50	NA	NA	< 1,000	**3,800**	< 33	< 500	< 50	< 50	< 50	**350**	NA	< 50	NA	NA	NA	**170**	**1,100**	< 50	ND
	12/06/02	NA	< 3.6	NA	NA	< 71 UJ	**1,000**	< 7.1	< 3.6	< 3.6	< 7.1	< 29	16	NA	< 3.6	NA	NA	NA	6.3	5.9	< 3.6	ND
	09/04/02	NA	< 6.3	NA	NA	< 130	**1,800**	< 40	< 6.3	< 6.3	< 13	< 50	**71**	NA	< 6.3	NA	NA	NA	13	16	**7.9**	ND
DUP0904021A	09/04/02	NA	< 4.2	NA	NA	< 83 UJ	**2,000**	< 13	< 4.2	< 4.2	< 8.3	< 33	**85**	NA	< 4.2	NA	NA	NA	12	15	< 4.2	ND
231GW22CL	09/04/02	NA	< 20	NA	NA	< 2,000	**2,300**	< 8.3	< 200 UJ	9.1 J	< 40	63 J	**140**	NA	< 200 UJ	NA	NA	NA	18 J	30 J	< 20	ND
	06/05/02	NA	< 7.1	NA	NA	< 140 UJ	**2,000**	< 14	< 7.1	< 7.1	< 14	< 57	**82**	NA	< 7.1	NA	NA	NA	22	41	< 7.1	ND
DUP0605023B	06/05/02	NA	< 7.1	NA	NA	< 140 UJ	**1,900**	< 14	< 7.1	< 7.1	< 14	< 57	**85**	NA	< 7.1	NA	NA	NA	23	42	< 7.1	ND
	03/08/02	NA	< 7.1	NA	NA	< 140	**2,500**	< 40	< 7.1	< 7.1	< 14	< 57	**430**	NA	< 7.1	NA	NA	NA	**240**	**830**	< 7.1	ND
DUP0308023B	03/08/02	NA	< 8.3	NA	NA	< 170 UJ	**2,700**	< 14	< 8.3	< 8.3	< 17	< 67	**420**	NA	< 8.3	NA	NA	NA	**220**	**750**	< 8.3	ND
231GW22CL	03/08/02	170	< 20	45	< 40	66 J,J+	**2,900**	< 17 UJ	< 200	16 J	< 40	13 J,J	**500**	65	< 200	130 J	< 40	140	**270**	**1,000 J+**	< 20	ND
	12/04/01	NA	< 8.3	NA	NA	< 170 UJ	**2,000**	< 17	< 8.3	< 8.3	< 17	< 67	**240**	NA	< 8.3	NA	NA	NA	95	**269**	< 8.3	ND
DUP1204013A	12/04/01	NA	< 7.1	NA	NA	< 140 UJ	**2,200**	< 14	< 7.1	< 7.1	< 14	< 57	**260**	NA	< 7.1	NA	NA	NA	110	**298**	**12**	ND
	09/04/01	NA	< 13	NA	NA	< 250	**3,600**	< 25	< 13	< 13	< 25	< 100	**400**	NA	< 13	NA	NA	NA	57	**156**	< 13	ND
	05/14/01	45	<20	23	< 20	< 400	**5,900**	< 40	< 20	< 20	< 40	< 200	**390**	63	< 20	260	< 20	180	45	**160**	< 20	ND
DUP0514011A	05/14/01	48	<20	25	< 20	< 400	**5,800**	< 40	< 20	< 20	< 40	< 200	**410**	64	NA	250	21	180	43	**170**	< 20	ND
	04/21/99	NA	**170**	NA	NA	NA	**4,300**	< 100	< 1,000	< 200	< 100	< 900 Y	**710**	NA	NA	NA	NA	NA	**340**	**1,410**	< 100	ND
	01/21/99	NA	< 120	NA	NA	NA	**5,200**	< 120	< 1,200	< 120	< 120	< 1,100 Y	**1,100**	NA	NA	NA	NA	NA	**740**	**3,330**	< 120	ND
	12/02/98	NA	**140**	NA	NA	NA	**4,300**	< 120	< 1,200	< 120	< 120	< 1,100 Y	**710**	NA	NA	NA	NA	NA	**550**	**2,060**	< 120	ND
	07/22/98	NA	**120**	NA	NA	NA	**4,400**	< 62	< 620	< 62	< 62	< 560 Y	**770**	NA	NA	NA	NA	NA	**550**	**2,790**	< 62	ND
	04/27/98	NA	**140**	NA	NA	NA	**5,100**	< 120	< 1,200	< 120	< 120	< 1,100 Y	**980**	NA	NA	NA	NA	NA	**450**	**4,440**	< 120	ND
	01/29/98	NA	**190**	NA	NA	NA	**5,100**	< 120	< 1,200	< 120	< 120	< 1,100 Y	**1,000**	NA	NA	NA	NA	NA	**1,800**	**5,470**	< 120	ND
	10/28/97	NA	**100**	NA	NA	NA	**3,300**	< 50	< 500	< 50	< 50	< 450 Y	**840**	NA	NA	NA	NA	NA	**380**	**4,140**	< 50	ND
	07/28/97	NA	< 120	NA	NA	NA	**3,400**	< 120	< 1,200	< 120	< 120	< 1,100 Y	**910**	NA	NA	NA	NA	NA	**530**	**4,630**	< 120	ND
	04/28/97	NA	**130**	NA	NA	NA	**4,200**	< 120	< 1,200	< 120	< 120	< 1,100 Y	**880**	NA	NA	NA	NA	NA	**1,300**	**6,900**	< 120	ND
231GW23	06/07/07	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
(shallow)	03/15/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	04/05/05	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/18/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/18/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/17/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/05/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	3.9	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/03/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/31/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/07/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/29/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/04/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/14/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/20/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/20/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/02/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/23/98	NA	< 0.5	NA	NA	NA	**4.4**	< 0.5	< 5	< 0.5	< 0.59	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	1.3	< 0.5	ND

Table A-10-3
Results of VOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	1,2,4-TMB	1,2-DCA	1,3,5-TMB	2-Phenyl-butane	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-form	Chloro-methane	Dichloro-methane	Ethyl-benzene	Isopropyl-benzene	MTBE	Naph-thalene	N-Butyl-Benzene	Propyl-benzene	Toluene	Total Xylenes	TCE	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	**0.38**	--	--	**1,500**	**1**	--	--	**80**	**1.3**	--	**43**	--	**13**	**300**	--	--	**150**	**130**	**2.7**	--
231GW23 (shallow)	04/28/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.65	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/02/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/23/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/29/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/29/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
231GW24 (shallow)	06/07/07	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/16/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	04/05/05	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/18/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/14/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/17/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/05/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/30/02	NA	NA [3]	NA	NA	NA [3]	< 0.5	NA [3]	NA [3]	NA [3]	NA [3]	NA [3]	< 0.5	NA	2.6	NA	NA	NA	< 0.5	< 0.5	NA [3]	ND
	05/30/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/06/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/29/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/29/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/09/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/19/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/20/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/19/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/20/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/22/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/03/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/29/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/30/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/30/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	0.56	< 0.5	ND
231GW25 (shallow)	06/07/07	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/15/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	04/06/05	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/18/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/18/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/17/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/05/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	5.9	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/03/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/31/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/07/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/29/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/04/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/14/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/19/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/21/99	NA	< 0.5	NA	NA	NA	**2**	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	0.67	< 0.5	ND
	10/19/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/20/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/22/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/03/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/29/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/30/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	1.6	< 0.5	ND
	04/30/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND

Table A-10-3
Results of VOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	1,2,4-TMB	1,2-DCA	1,3,5-TMB	2-Phenyl-butane	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-form	Chloro-methane	Dichloro-methane	Ethyl-benzene	Isopropyl-benzene	MTBE	Naph-thalene	N-Butyl-Benzene	Propyl-benzene	Toluene	Total Xylenes	TCE	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		**--**	**0.38**	**--**	**--**	**1,500**	**1**	**--**	**--**	**80**	**1.3**	**--**	**43**	**--**	**13**	**300**	**--**	**--**	**150**	**130**	**2.7**	**--**
231GW26 (intermediate)	06/08/07	NA	< 0.5	NA	NA	< 10	0.06 J	< 1	< 0.5	1.1	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/16/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	04/06/05	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	1.4	< 1 UJ	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/18/04	NA	< 0.5	NA	NA	< 10	0.1 J	< 1	< 0.5	1.8	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/15/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	1.6	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/18/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	2.6	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/06/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	6.9	2	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/04/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	1.9	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	06/03/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	1.4	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/07/02	NA	< 0.5	NA	NA	< 10	0.2 J	< 1	< 0.5	0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/29/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/04/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	0.6	< 0.5	< 0.5	ND
	05/10/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/21/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/21/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/21/98	NA	< 0.5	NA	NA	NA	0.6	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	0.64	< 0.5	ND
	07/22/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.65	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/27/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	0.61	0.94	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/29/98	NA	< 0.5	NA	NA	NA	0.44	< 0.5	< 5	0.79	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	0.67	< 0.5	ND
	10/28/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	0.53	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/28/97	NA	< 0.5	NA	NA	NA	0.23	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/28/97	NA	< 0.5	NA	NA	NA	0.57	< 0.5	< 5	0.52	< 0.5	< 4.5 Y	0.72	NA	NA	NA	NA	NA	0.99	3.53	< 0.5	ND
231GW27 (intermediate)	06/08/07	NA	< 0.5	NA	NA	< 10	0.04 J	< 1	< 0.5	0.9	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/15/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	1.2 J+	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	04/06/05	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	1.4	< 1 UJ	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/19/04	NA	< 0.5	NA	NA	< 10	0.1 J	< 1	< 0.5	1.7	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/15/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	1	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/18/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	1.2	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/10/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	0.8	< 1	< 4	< 0.5	NA	< 0.5 UJ	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/04/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	1	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	06/03/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/07/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/29/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 U	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/04/01	NA	<0.5	NA	NA	27 J-	<0.5	< 1	1.4	<0.5	<1	< 4	<0.5	NA	< 0.5	NA	NA	NA	<0.5	<0.5	0.8	ND
DUP0904012A	09/04/01	NA	<0.5	NA	NA	27 J-	<0.5	< 5	1.1	<0.5	<1	< 4	<0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
231GW27CL	09/04/01	NA	<0.5	NA	NA	<10	<0.5	< 1	< 0.5	<0.5	1.2	< 5	<0.5	NA	< 5	< 1	NA	NA	<0.5	<0.5	< 1.0	ND
	05/10/01	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0510011A	05/10/01	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 5	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
231GW27CL	05/10/01	< 1	< 1	< 1	< 1	< 50	< 1	< 1	< 5	< 1	< 1	< 5	< 1	< 1	< 5	< 1	< 1	< 1	NA	< 1	< 1	ND
	04/21/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/21/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/21/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	1.2	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/22/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	0.99	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/27/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	1.5	0.61	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/29/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	0.92	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/28/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	1.3	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/28/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	0.85	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/28/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	1.3	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND

Table A-10-3
Results of VOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	1,2,4-TMB	1,2-DCA	1,3,5-TMB	2-Phenyl-butane	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-form	Chloro-methane	Dichloro-methane	Ethyl-benzene	Isopropyl-benzene	MTBE	Naph-thalene	N-Butyl-Benzene	Propyl-benzene	Toluene	Total Xylenes	TCE	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		**--**	**0.38**	**--**	**--**	**1,500**	**1**	**--**	**--**	**80**	**1.3**	**--**	**43**	**--**	**13**	**300**	**--**	**--**	**150**	**130**	**2.7**	**--**
231GW28 (intermediate)	06/05/07	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	1	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/15/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	2.4 J+	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	04/06/05	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	12	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/18/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/15/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/17/03	NA	< 0.5	NA	NA	< 10	0.3 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	1.6	NA	NA	NA	0.7	< 0.5	< 0.5	ND
	12/06/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	2.3	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/03/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/31/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/07/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/04/01	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/04/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/09/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/13/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/11/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/02/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/23/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/28/98	NA	< 0.5	NA	NA	NA	0.23	< 0.5	< 5	< 0.5	0.6	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/02/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/27/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/29/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/29/97	NA	< 0.5	NA	NA	NA	0.42	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	0.69	< 0.5	ND
231GW29 (intermediate)	06/06/07	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
DUP0606072A	06/06/07	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
231GW29CL	06/06/07	NA	< 0.5	NA	NA	< 10 R	< 0.5	< 1	< 5	< 0.5	< 1	< 4.5	< 0.5	NA	< 2	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/16/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	04/06/05	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/18/04	NA	< 0.5	NA	NA	< 10	0.1 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
DUP0318043B	03/18/04	NA	< 0.5	NA	NA	< 10	0.1 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
231GW29CL	03/18/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/15/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/18/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/06/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	1.3	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/03/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	06/03/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/07/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/29/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/04/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/11/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/21/99	NA	< 0.5	NA	NA	NA	0.14	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/21/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/02/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/23/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	0.56	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/28/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	0.77	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/02/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/27/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/29/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/29/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND

Table A-10-3
Results of VOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	1,2,4-TMB	1,2-DCA	1,3,5-TMB	2-Phenyl-butane	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-form	Chloro-methane	Dichloro-methane	Ethyl-benzene	Isopropyl-benzene	MTBE	Naph-thalene	N-Butyl-Benzene	Propyl-benzene	Toluene	Total Xylenes	TCE	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	**0.38**	--	--	**1,500**	**1**	--	--	**80**	**1.3**	--	**43**	--	**13**	**300**	--	--	**150**	**130**	**2.7**	--
231GW30 (shallow)	06/07/07	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/09/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/22/05	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/19/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/14/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/14/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/06/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/04/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	06/04/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1.0	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/08/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/04/01	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/04/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/14/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/19/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/19/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/19/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/20/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/22/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/03/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/29/97	NA	< 0.5	NA	NA	NA	**8.5**	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	1.4	NA	NA	NA	NA	NA	1.5	6.5	< 0.5	ND
	07/30/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/30/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
231PZ01 (shallow)	06/07/07	NA	< 31	NA	NA	< 630	**4,700**	< 63 UJ	< 31	< 31	< 63	< 250	**130**	NA	< 31	NA	NA	NA	< 31	< 63	< 31	ND
	03/14/06	NA	< 31	NA	NA	< 630	**4,500**	< 63 UJ	< 31	< 31	< 63	< 250	**310**	NA	< 31	NA	NA	NA	< 31	< 63	< 31	ND
	04/04/05	NA	< 25	NA	NA	< 500	**4,600**	< 50	< 25	< 25	< 50	< 200	**150**	NA	< 25	NA	NA	NA	26	< 50	< 25	ND
	03/19/04	NA	< 20	NA	NA	< 400	**5,800**	< 40	< 20	< 20	< 40	< 160	**410**	NA	< 20	NA	NA	NA	37	72	< 20	ND
	08/19/03	NA	< 17	NA	NA	< 330	**6,600**	< 33	< 17	< 17	< 33	< 130	**470**	NA	< 17	NA	NA	NA	31	110	< 17	ND
	03/17/03	NA	< 17	NA	NA	< 330	**6,500**	< 33	< 17	< 17	< 33	< 130	**600**	NA	< 17	NA	NA	NA	42	**140**	< 17	ND
	12/09/02	NA	< 13	NA	NA	< 250	**6,800**	< 25	< 13	< 13	< 25	< 100	**420**	NA	< 13 UJ	NA	NA	NA	32	72	< 13	ND
	09/05/02	NA	< 20	NA	NA	< 400	**6,000**	< 40	< 20	< 20	< 40	< 160	**570**	NA	< 20	NA	NA	NA	37	130	< 20	ND
	06/05/02	NA	< 31	NA	NA	< 630 UJ	**7,100**	< 63	41	< 31	< 63	< 250	**490**	NA	< 31	NA	NA	NA	39	**140**	< 31	ND
	03/08/02	NA	< 25	NA	NA	< 500 UJ	**8,000**	< 50 UJ	< 25	< 25	< 50	< 200	**900**	NA	< 25	NA	NA	NA	53	**330**	< 25	ND
	11/30/01	NA	< 25	NA	NA	< 500	**5,300**	< 50	< 25	< 25	< 50	< 200	**590**	NA	< 25	NA	NA	NA	35	**220**	< 25	ND
	09/06/01	NA	< 25	NA	NA	< 500 UJ	**6,900**	< 50 UJ	< 25	< 25	< 50 UJ	< 200	**560**	NA	< 25	NA	NA	NA	39	**220**	< 25	ND
	05/15/01	71	NA	55	< 17	< 330 UJ	**4,400**	< 33 UJ	< 17	< 17	< 33	< 170	**510**	53	< 17 UJ	**510**	27	170	30	**260**	< 17	ND
	04/14/99	NA	**210**	NA	NA	NA	**5,600**	< 100	< 1,000	< 200	< 100	< 900 Y	**1,900**	NA	NA	NA	NA	NA	< 100	**1,200**	< 100	ND
	01/12/99	NA	**330**	NA	NA	NA	**11,000**	< 250	< 2,500	< 250	< 250	< 2,200 Y	**2,200**	NA	NA	NA	NA	NA	< 250	**1,800**	< 250	ND
	10/13/98	NA	**280**	NA	NA	NA	**8,500**	< 250	< 2,500	< 250	< 250	< 2,200 Y	**1,800**	NA	NA	NA	NA	NA	< 250	**1,800**	< 250	ND
	07/14/98	NA	**260**	NA	NA	NA	**8,800**	< 120	< 1,200	< 120	< 120	< 1,100 Y	**1,900**	NA	NA	NA	NA	NA	**830**	**5,180**	< 120	ND
	04/30/98	NA	**260**	NA	NA	NA	**8,500**	< 120	< 1,200	< 120	< 120	< 1,100 Y	**3,100**	NA	NA	NA	NA	NA	**1,700**	**9,300**	< 120	ND
	02/03/98	NA	< 250	NA	NA	NA	**5,900**	< 250	< 2,500	< 250	< 250	< 2,200 Y	**4,100**	NA	NA	NA	NA	NA	**1,700**	**13,600**	< 250	ND
231PZ02 (shallow)	06/07/07	NA	< 1	NA	NA	< 20	**140**	< 2 UJ	< 1	< 1	< 2	< 8	< 1	NA	< 1	NA	NA	NA	3.4	2.3	< 1	ND
	03/10/06	NA	< 0.5	NA	NA	< 10	**30**	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	3.3	3.1	< 0.5	ND
	04/04/05	NA	< 0.5	NA	NA	< 10	**19**	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	3.5	2.8	< 0.5	ND
	03/19/04	NA	< 0.5	NA	NA	< 10	**23**	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	3.8	3.6	< 0.5	ND
	08/19/03	NA	< 0.5	NA	NA	< 10	**290**	< 1	< 0.5	< 0.5	< 1	< 4	1.7	NA	< 0.5	NA	NA	NA	3.1	3.9	< 0.5	ND
	03/17/03	NA	< 0.5	NA	NA	< 10 UJ	**46**	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	3.2	2.1	< 0.5	ND
	12/09/02	NA	< 1.7	NA	NA	< 33	**650**	< 3.3	< 1.7	< 1.7	< 3.3	< 13	< 1.7	NA	< 1.7 UJ	NA	NA	NA	7	3	< 1.7	ND
	09/05/02	NA	< 0.8	NA	NA	< 17	**210**	< 1.7	< 0.8	< 0.8	< 1.7	< 6.7	< 0.8	NA	< 0.8	NA	NA	NA	2.5	1.7	< 0.8	ND
	06/05/02	NA	< 1.3	NA	NA	< 25 UJ	**390**	< 2.5	< 1.3	< 1.3	< 2.5	< 10	2.0	NA	< 1.3	NA	NA	NA	3.8	3.6	< 1.3	ND
	03/08/02	NA	< 0.5	NA	NA	< 10	**50**	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	3.8	3.7	< 0.5	ND
	11/30/01	NA	< 1.3	NA	NA	< 25	**300**	< 2.5	< 1.3	< 1.3	< 2.5	< 10	2.5	NA	< 1.3	NA	NA	NA	3.9	3.4	1.3	ND

Table A-10-3
Results of VOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	1,2,4-TMB	1,2-DCA	1,3,5-TMB	2-Phenyl-butane	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-form	Chloro-methane	Dichloro-methane	Ethyl-benzene	Isopropyl-benzene	MTBE	Naph-thalene	N-Butyl-Benzene	Propyl-benzene	Toluene	Total Xylenes	TCE	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	**0.38**	--	--	**1,500**	**1**	--	--	**80**	**1.3**	--	**43**	--	**13**	**300**	--	--	**150**	**130**	**2.7**	--
231PZ02 (shallow)	09/06/01	NA	< 1.3	NA	NA	< 25 UJ	**290**	< 2.5 UJ	< 1.3	< 1.3	< 2.5 UJ	< 10	< 1.3	NA	< 1.3	NA	NA	NA	3.6	2.9	< 1.3	ND
	05/15/01	< 0.6	NA	0.8	0.8	22 J-	**150**	< 1.3 UJ	< 0.6	1.2	< 1.3	< 6.3	< 0.6	5.2	< 0.6 UJ	< 0.6	0.9	7.4	2.5	4.4	< 0.6	ND
	04/14/99	NA	**11**	NA	NA	NA	**280**	< 5	< 50	< 10	< 5	< 45 Y	< 5	NA	NA	NA	NA	NA	< 5	< 5	< 5	ND
	01/12/99	NA	**11**	NA	NA	NA	**340**	< 5	< 50	< 5	< 5	< 45 Y	< 5	NA	NA	NA	NA	NA	< 5	< 5	< 5	ND
	10/13/98	NA	**17**	NA	NA	NA	**460**	< 12	< 120	< 12	< 12	< 110 Y	< 12	NA	NA	NA	NA	NA	< 12	< 12	< 12	ND
	07/14/98	NA	< 25	NA	NA	NA	**500**	< 25	< 250	< 25	< 25	< 220 Y	< 25	NA	NA	NA	NA	NA	< 25	< 25	< 25	ND
	04/30/98	NA	**18**	NA	NA	NA	**650**	< 12	< 120	< 12	< 12	< 110 Y	< 12	NA	NA	NA	NA	NA	< 12	< 12	< 12	ND
	02/03/98	NA	**22**	NA	NA	NA	**810**	< 12	< 120	< 12	< 12	< 110 Y	< 12	NA	NA	NA	NA	NA	< 12	42	< 12	ND
231PZ03 (shallow)	06/07/07	NA	< 1.3	NA	NA	< 25	**190**	< 2.5	< 1.3	< 1.3	< 2.5	< 10	3.8	NA	< 1.3	NA	NA	NA	7.1	4.2	< 1.3	ND
	03/14/06	NA	< 0.5	NA	NA	< 10	**280**	< 1 UJ	< 0.5	< 0.5	< 1	< 4	5.4	NA	< 0.5	NA	NA	NA	6.9	3	< 0.5	ND
	04/04/05	NA	< 3.1	NA	NA	< 63	**370**	< 6.3	< 3.1	< 3.1	< 6.3	< 25	3.7	NA	< 3.1	NA	NA	NA	5.4	< 6.3	< 3.1	ND
	03/19/04	NA	< 2	NA	NA	< 40	**400**	< 4	< 2	< 2	< 4	< 16	6.4	NA	< 2	NA	NA	NA	5.8	< 2	< 2	ND
	08/21/03	NA	< 0.5	NA	NA	< 10	**26**	< 1	< 0.5	< 0.5	< 1	< 4	1.5	NA	< 0.5	NA	NA	NA	4.1	2.6	< 0.5	ND
	03/17/03	NA	< 0.5	NA	NA	< 10 UJ	**47**	< 1	1.1	< 0.5	< 1	< 4	1.5	NA	< 0.5	NA	NA	NA	2.4	< 0.5	< 0.5	ND
	12/06/02	NA	< 0.5	NA	NA	< 10 UJ	**21**	< 1	< 0.5	< 0.5	< 1	< 4	2.7	NA	< 0.5	NA	NA	NA	3.7	2.9	< 0.5	ND
	09/04/02	NA	< 0.5	NA	NA	< 10	**57**	< 1	< 0.5	< 0.5	< 1	< 4	1.9	NA	< 0.5	NA	NA	NA	5.1	2.7	< 0.5	ND
	06/06/02	NA	< 1.0	NA	NA	< 20 UJ	**250**	< 2 UJ	< 1	< 1	< 2.0	< 8	2.2	NA	< 1.0	NA	NA	NA	3	< 1	< 1.0	ND
	03/11/02	NA	< 1	NA	NA	< 20 UJ	**350**	< 2 UJ	< 1	< 1	< 2	< 8	2.9	NA	< 1	NA	NA	NA	3.2	1.4	< 1	ND
	11/30/01	NA	< 0.5	NA	NA	< 10 UJ	**21**	< 1	< 0.5	< 0.5	< 1	< 4	2.1	NA	< 0.5	NA	NA	NA	3.5	2.6	< 0.5	ND
	09/06/01	NA	< 0.8	NA	NA	< 17	**60**	< 1.7	< 0.8	< 0.8	< 1.7	< 6.7	1.8	NA	< 0.8	NA	NA	NA	3.9	1.6	< 0.8	ND
	05/15/01	< 1	NA	< 1	8.9	< 20 UJ	**240**	< 2 UJ	< 1	< 1	< 2	< 10	11	45	< 1 UJ	5.5	19	95	2.8	2	< 1	ND
	04/14/99	NA	< 25	NA	NA	NA	**620**	< 25	< 250	< 50	< 25	< 220 Y	31	NA	NA	NA	NA	NA	< 25	< 25	< 25	ND
	01/12/99	NA	< 12	NA	NA	NA	**240**	< 12	< 120	< 12	< 12	< 110 Y	23	NA	NA	NA	NA	NA	< 12	< 12	< 12	ND
	10/13/98	NA	**5.5**	NA	NA	NA	**140**	< 5	< 50	< 5	< 5	< 45 Y	8.5	NA	NA	NA	NA	NA	< 5	< 5	< 5	ND
	07/14/98	NA	**38**	NA	NA	NA	**1,300**	< 25	< 250	< 25	< 25	< 220 Y	< 25	NA	NA	NA	NA	NA	< 25	< 25	< 25	ND
	04/30/98	NA	**64**	NA	NA	NA	**2,200**	< 50	< 500	< 50	< 50	< 450 Y	**370**	NA	NA	NA	NA	NA	< 50	87	< 50	ND
	02/03/98	NA	< 25	NA	NA	NA	**1,600**	< 25	< 250	< 25	< 25	< 220 Y	**480**	NA	NA	NA	NA	NA	< 25	**280**	< 25	ND
231PZ04 (shallow)	06/07/07	NA	< 1.3	NA	NA	< 25	**260**	< 2.5	< 1.3	< 1.3	< 2.5	< 10	13	NA	< 1.3	NA	NA	NA	6.7	2.8	< 1.3	ND
	03/14/06	NA	< 3.6	NA	NA	< 71	**440**	< 7.1 UJ	< 3.6	< 3.6	< 7.1	< 29	19	NA	< 3.6	NA	NA	NA	6.4	< 7.1	< 3.6	ND
	04/04/05	NA	< 4.2	NA	NA	< 83	**750**	< 8.3	< 4.2	< 4.2	< 8.3	< 33	33	NA	< 4.2	NA	NA	NA	6.1	< 8.3	< 4.2	ND
	03/19/04	NA	< 3.1	NA	NA	< 63	**710**	< 6.3	< 3.1	< 3.1	< 6.3	< 25	26	NA	< 3.1	NA	NA	NA	6.1	< 3.1	< 3.1	ND
	08/21/03	NA	< 0.5	NA	NA	< 10	**180**	0.5 J	< 0.5	< 0.5	< 1	< 4	9.2	NA	< 0.5	NA	NA	NA	4.4	2.6	< 0.5	ND
	03/17/03	NA	< 2.5	NA	NA	< 50	**740**	< 5	< 2.5	< 2.5	< 5	< 20	35	NA	< 2.5	NA	NA	NA	3.2	< 2.5	< 2.5	ND
	12/06/02	NA	< 1	NA	NA	< 20 UJ	**350**	< 2	< 1	< 1	< 2	< 8	19	NA	< 1	NA	NA	NA	3.8	1.6	< 1	ND
	09/04/02	NA	< 2	NA	NA	< 40	**490**	< 4	< 2	< 2	< 4	< 16	19	NA	< 2	NA	NA	NA	4.5	< 2	< 2	ND
	06/06/02	NA	< 3.1	NA	NA	< 63 UJ	**830**	< 6.3 UJ	< 3.1	< 3.1	< 6.3	< 25	23	NA	< 3.1	NA	NA	NA	3.5	< 3.1	< 3.1	ND
	03/08/02	NA	< 3.1	NA	NA	< 63 UJ	**820**	< 6.3	< 3.1	< 3.1	< 6.3	< 25	20	NA	< 3.1	NA	NA	NA	3.6	< 3.1	< 3.1	ND
	11/30/01	NA	< 1.3	NA	NA	< 25	**320**	< 2.5 U	< 1.3	< 1.3	< 2.5	< 10	12	NA	< 1.3	NA	NA	NA	3.2	1.5	< 1.3	ND
	09/06/01	NA	< 1	NA	NA	< 20	**660**	< 2	< 1	< 1	< 2	< 8	16	NA	< 1	NA	NA	NA	4.1	1.4	1.1	ND
	05/15/01	< 5	NA	5.9	12	< 100 UJ	**1,100**	< 10 UJ	< 5	< 5	< 10	< 50	24	65	< 5 UJ	100	26	150	< 5	< 5	< 5	ND
	04/14/99	NA	**65**	NA	NA	NA	**1,700**	< 25	< 250	< 50	< 25	< 220 Y	**540**	NA	NA	NA	NA	NA	< 25	< 25	< 25	ND
	01/11/99	NA	**27**	NA	NA	NA	**760**	< 12	< 120	< 12	< 12	< 110 Y	**610**	NA	NA	NA	NA	NA	< 12	< 12	< 12	ND

Table A-10-3
Results of VOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	1,2,4-TMB	1,2-DCA	1,3,5-TMB	2-Phenyl-butane	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-form	Chloro-methane	Dichloro-methane	Ethyl-benzene	Isopropyl-benzene	MTBE	Naph-thalene	N-Butyl-Benzene	Propyl-benzene	Toluene	Total Xylenes	TCE	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	**0.38**	--	--	**1,500**	**1**	--	--	**80**	**1.3**	--	**43**	--	**13**	**300**	--	--	**150**	**130**	**2.7**	--
231PZ04 (shallow)	10/12/98	NA	< 25	NA	NA	NA	**1,300**	< 25	< 250	< 25	< 25	< 220 Y	**780**	NA	NA	NA	NA	NA	< 25	< 25	< 25	ND
	07/13/98	NA	**43**	NA	NA	NA	**1,400**	< 25	< 250	< 25	< 25	< 220 Y	**490**	NA	NA	NA	NA	NA	< 25	130	**35**	ND
	04/30/98	NA	**84**	NA	NA	NA	**2,900**	< 50	< 500	< 50	< 50	< 450 Y	**1,300**	NA	NA	NA	NA	NA	< 50	**250**	< 50	ND
	02/04/98	NA	< 50	NA	NA	NA	**1,900**	< 50	< 500	< 50	< 50	< 450 Y	**1,300**	NA	NA	NA	NA	NA	< 50	**1,378**	< 50	ND

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - From Table 4 of the CAP.
3 - These analytes were mistakenly not marked on the chain-of-custody by the field team during this sampling event.
µg/L - micrograms per liter
NA - Not analyzed
ND - Not detected
VOC - Volatile organic compound
1,3,5-TMB - 1,3,5-trimethylbenzene
1,2,4-TMB - 1,2,4-trimethylbenzene
1,2-DCA - 1,2-dichloroethane
MTBE - methyl tertiary-butyl ether
TCE - trichloroethene
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.
Bold numbers - indicate concentrations which exceed cleanup levels.
-- Cleanup level not established.

Table A-10-4
Results of Dissolved Gas and TOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Ethane	Ethene	Methane	TOC
	Analytical Method[1]	RSK 175	RSK 175	RSK 175	SW9060
		(mg/L)	(mg/L)	(mg/L)	(mg/L)
207GW03 (intermediate)	03/16/06	NA	NA	NA	2.9
	04/12/05	< 0.005	< 0.005	9	3.6
	01/11/99	< 0.003	< 0.003	1.32 E	NA
	01/11/99	< 0.6	< 0.6	3.2	NA
	10/12/98	< 0.6	< 0.6	7.5	NA
	07/09/98	< 0.06 DU	< 0.06 DU	2.33 D	NA
	05/04/98	< 0.13 DU	< 0.13 DU	0.82 D	NA
	03/05/98	< 0.13 DU	< 0.13 DU	3.66 D	NA
231GW06 (intermediate)	03/15/06	NA	NA	NA	1.5
	04/04/05	< 0.005	< 0.005	0.026	1.4
	01/20/99	< 0.003	< 0.003	0.003	NA
	10/20/98	< 0.003	< 0.003	0.006	NA
	07/21/98	< 0.0005	< 0.0005	0.0019	NA
	04/23/98	< 0.0005	< 0.0005	0.005	NA
	01/27/98	< 0.0005	< 0.0005	0.0047	NA
	10/22/97	< 0.0005	< 0.0005	0.0108	NA
	07/23/97	< 0.0005	< 0.0005	0.0031	NA
	04/23/97	< 0.0005	< 0.0005	0.0068	NA
	01/29/97	< 0.5 DU	< 0.5 DU	1.8 D	NA
231GW09 (shallow) DUP1129052A	03/15/06	NA	NA	NA	0.88
	11/29/05	< 0.005	< 0.005	< 0.005	1.3
	11/29/05	< 0.005	< 0.005	< 0.005	0.99
	08/31/05	< 0.005	< 0.005	< 0.005	1.1
	06/01/05	< 0.005	< 0.005	< 0.005	1.2 J+
	04/04/05	< 0.005	< 0.005	< 0.005	1.3
	01/13/99	< 0.003	< 0.003	0.0075	NA
	10/14/98	< 0.003	< 0.003	0.0085	NA
	07/15/98	< 0.0005	< 0.0005	0.0046	NA
	04/20/98	< 0.0005	< 0.0005	0.002	NA
	01/28/98	< 0.0025 DU	< 0.0025 DU	0.0305 D	NA
	10/23/97	< 0.0005	< 0.0005	0.0025	NA
	07/24/97	< 0.0005	< 0.0005	0.0068	NA
	04/22/97	< 0.0005	< 0.0005	0.0093	NA
	01/28/97	< 0.0005	< 0.0005	0.015	NA
231GW10 (shallow)	03/09/06	NA	NA	NA	8.4
	03/22/05	< 0.005	< 0.005	13	8.9
	01/25/99	< 0.003	< 0.003	1.440 E	NA
	01/25/99	< 0.6	< 0.6	7.2	NA
	10/19/98	< 0.3	< 0.3	4.4	NA
	07/22/98	< 0.25 DU	< 0.25 DU	5.5 D	NA
	04/23/98	< 0.25 DU	< 0.25 DU	4.63 D	NA
	01/28/98	< 0.5 DU	< 0.5 DU	12.1 D	NA
	10/22/97	< 0.5 DU	< 0.5 DU	9.7 D	NA
	07/23/97	< 0.5 DU	< 0.5 DU	4.7 D	NA
	04/23/97	< 2.5 DU	< 2.5 DU	14.4 D	NA
	01/29/97	< 0.5 DU	< 0.5 DU	11.2 D	NA

Table A-10-4
Results of Dissolved Gas and TOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Ethane	Ethene	Methane	TOC
	Analytical Method[1]	RSK 175	RSK 175	RSK 175	SW9060
		(mg/L)	(mg/L)	(mg/L)	(mg/L)
231GW11 (shallow)	03/15/06	NA	NA	NA	2
	04/05/05	< 0.005	< 0.005	5.7	2.7
	01/11/99	< 0.003	< 0.003	0.779 E	NA
	01/11/99	< 0.3	< 0.3	0.87	NA
	10/12/98	< 0.3	< 0.3	1.5	NA
	07/13/98	< 0.25 DU	< 0.25 DU	1.16 D	NA
	04/21/98	< 0.13 DU	< 0.13 DU	1.25 D	NA
	01/26/98	< 0.25 DU	< 0.25 DU	3.97 D	NA
	10/21/97	< 0.25 DU	< 0.25 DU	4.78 D	NA
	07/21/97	< 0.25 DU	< 0.25 DU	3.12 D	NA
	04/21/97	< 0.5 DU	< 0.5 DU	2.3 D	NA
	01/28/97	< 0.5 DU	< 0.5 DU	3.2 D	NA
231GW13 (deep)	03/14/06	NA	NA	NA	3.7
	04/05/05	< 0.005	< 0.005	0.012	3.4
	01/14/99	< 0.003	< 0.003	< 0.003	NA
	10/15/98	< 0.003	< 0.003	0.0071	NA
	07/16/98	< 0.0005	< 0.0005	< 0.0005	NA
	04/21/98	< 0.0005	< 0.0005	0.0094	NA
	01/26/98	< 0.0005	< 0.0005	< 0.0085	NA
	10/20/97	< 0.0005	< 0.0005	0.0053	NA
	07/21/97	< 0.0005	< 0.0005	0.0017	NA
	04/21/97	< 0.0025 DU	< 0.0025 DU	0.0193 D	NA
	01/27/97	< 0.0005	< 0.0005	0.0064	NA
231GW15 (intermediate)	03/14/06	NA	NA	NA	1.5
	04/05/05	< 0.005	< 0.005	0.079	1.2
	01/14/99	< 0.003	< 0.003	0.068	NA
	01/14/99	< 0.006	< 0.006	0.067	NA
	10/15/98	< 0.003	< 0.003	< 0.003	NA
	07/16/98	< 0.0005	< 0.0005	< 0.0005	NA
	04/21/98	< 0.005 DU	< 0.005 DU	0.091 D	NA
	01/26/98	< 0.0025 DU	< 0.0025 DU	0.055 D	NA
	10/20/97	< 0.0005	< 0.0005	0.0025	NA
	07/21/97	< 0.005 DU	< 0.005 DU	0.057 D	NA
	04/21/97	< 0.005 DU	< 0.005 DU	0.049 D	NA
	01/27/97	< 0.0025 DU	< 0.0025 DU	0.0208 D	NA
231GW16 (shallow)	03/09/06	NA	NA	NA	8.1
	03/22/05	< 0.005	< 0.005	5.2	5
	01/14/99	< 0.003	< 0.003	1.610	NA
	01/14/99	< 0.6	< 0.6	8.7	NA
	10/15/98	< 0.6	< 0.6	3.6	NA
	07/16/98	< 0.13 DU	< 0.13 DU	0.94 D	NA
	04/21/98	< 0.025 DU	< 0.025 DU	0.549 D	NA
	01/26/98	< 0.25 DU	< 0.25 DU	3.53 D	NA
	10/20/97	< 0.13 DU	< 0.13 DU	3.33 D	NA
	07/21/97	< 0.25 DU	< 0.25 DU	3.45 D	NA
	04/24/97	< 2.5 DU	< 2.5 DU	9.7 D	NA
	01/30/97	< 0.5 DU	< 0.5 DU	6.5 D	NA

Table A-10-4
Results of Dissolved Gas and TOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Ethane	Ethene	Methane	TOC
	Analytical Method[1]	RSK 175	RSK 175	RSK 175	SW9060
		(mg/L)	(mg/L)	(mg/L)	(mg/L)
231GW17 (deep)	03/15/06	NA	NA	NA	0.74
	04/05/05	< 0.005	< 0.005	0.008	< 0.5
	01/13/99	< 0.003	< 0.003	0.0063	NA
	10/14/98	< 0.003	< 0.003	0.004	NA
	07/15/98	< 0.0005	< 0.0005	0.0034	NA
	04/20/98	< 0.0005	< 0.0005	< 0.0005	NA
	01/27/98	< 0.0025 DU	< 0.0025 DU	0.0254 D	NA
	10/21/97	< 0.0005	< 0.0005	0.0058	NA
	07/22/97	< 0.0005	< 0.0005	0.0013	NA
	04/22/97	< 0.005 DU	< 0.005 DU	0.022 D	NA
	01/28/97	< 0.0025 DU	< 0.0025 DU	0.0242 D	NA
231GW18 (intermediate)	03/15/06	NA	NA	NA	1.1
	04/05/05	< 0.005	< 0.005	0.04	0.65
	01/13/99	< 0.003	< 0.003	0.003	NA
	10/14/98	< 0.003	< 0.003	0.003	NA
	07/15/98	< 0.0005	< 0.0005	0.002	NA
	04/20/98	< 0.0005	< 0.0005	< 0.0005	NA
	01/27/98	< 0.0005	< 0.0005	0.0114	NA
	10/21/97	< 0.0005	< 0.0005	0.0011	NA
	07/22/97	< 0.25 DU	< 0.25 DU	2.38 D	NA
	04/22/97	< 0.0005	< 0.0005	0.0081	NA
	01/28/97	< 0.0005	< 0.0005	0.0031	NA
231GW19 (shallow)	03/16/06	NA	NA	NA	5.5
	04/05/05	< 0.005	< 0.005	2.4	3.9
	01/13/99	< 0.003	< 0.003	1.6	NA
	01/13/99	< 0.6	< 0.6	8.8	NA
	10/14/98	< 0.3	< 0.3	4.1	NA
	07/15/98	< 0.25 DU	< 0.25 DU	1.05 D	NA
	04/20/98	< 0.25 DU	< 0.25 DU	0.53 D	NA
	01/27/98	< 0.25 DU	< 0.25 DU	3.96 D	NA
	10/20/97	< 0.25 DU	< 0.25 DU	6.35 D	NA
	07/22/97	< 0.25 DU	< 0.25 DU	4.7 D	NA
	04/21/97	< 0.5 DU	< 0.5 DU	9.1 D	NA
	01/27/97	< 0.5 DU	< 0.5 DU	2.8 D	NA
231GW20 (deep)	03/15/06	NA	NA	NA	1.7
	04/06/05	< 0.005	< 0.005	< 0.005	1
	01/20/99	< 0.003	< 0.003	< 0.003	NA
	10/20/98	< 0.003	< 0.003	< 0.003	NA
	07/21/98	< 0.0005	< 0.0005	< 0.0014	NA
	04/23/98	< 0.0005	< 0.0005	< 0.0005	NA
	01/29/98	< 0.0025 DU	< 0.0025 DU	< 0.0285 D	NA
	10/22/97	< 0.0005	< 0.0005	0.0037	NA
	07/23/97	< 0.0005	< 0.0005	0.0007	NA
	04/23/97	< 0.0005	< 0.0005	0.0024	NA

Table A-10-4
Results of Dissolved Gas and TOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Ethane	Ethene	Methane	TOC
	Analytical Method[1]	RSK 175	RSK 175	RSK 175	SW9060
		(mg/L)	(mg/L)	(mg/L)	(mg/L)
231GW21 (shallow)	03/08/06	NA	NA	NA	9.1
DUP0308061A	03/08/06	NA	NA	NA	9.3
231GW21CL	03/08/06	NA	NA	NA	9.8
	03/31/05	0.005	< 0.005	8.3	29
DUP0331052D	03/31/05	< 0.005	< 0.005	8.5	28
231GW21CL	03/31/05	0.0042	0.002	5.3	32.7
	01/20/99	< 0.003	< 0.003	1.28	NA
	01/20/99	< 0.6	< 0.6	3.9	NA
	10/20/98	< 0.3	< 0.3	5.1	NA
	07/23/98	< 0.25 DU	< 0.25 DU	3.73 D	NA
	05/01/98	< 0.13 DU	< 0.13 DU	2.46 D	NA
	01/28/98	< 0.25 DU	< 0.25 DU	6.03 D	NA
	10/27/97	< 0.25 DU	< 0.25 DU	2.56 D	NA
	07/24/97	< 0.25 DU	< 0.25 DU	3.88 D	NA
	04/24/97	< 2.5 DU	< 2.5 DU	13.9 D	NA
	01/30/97	< 0.5 DU	< 0.5 DU	3.2 D	NA
231GW22 (shallow)	03/09/06	NA	NA	NA	27
DUP0309061A	03/09/06	NA	NA	NA	28
	03/23/05	< 0.005	< 0.005	12	25
DUP0323052A	03/23/05	< 0.005	< 0.005	11	25
	01/21/99	0.004	< 0.003	1.330 E	NA
	01/21/99	< 0.6	< 0.6	4.7	NA
	10/21/98	< 0.3	< 0.3	4.5	NA
	07/22/98	< 0.13 DU	< 0.13 DU	0.84 D	NA
	04/27/98	< 0.13 DU	< 0.13 DU	0.28 D	NA
	01/29/98	< 0.25 DU	< 0.25 DU	5.13 D	NA
	10/28/97	< 0.25 DU	< 0.25 DU	5.83 D	NA
	07/28/97	< 0.25 DU	< 0.25 DU	6.42 D	NA
	04/28/97	< 0.5 DU	< 0.5 DU	2.3 D	NA
231GW23 (shallow)	03/15/06	NA	NA	NA	8.2
	04/05/05	< 0.005	< 0.005	15	6.9
	01/20/99	< 0.003	< 0.003	1.57	NA
	01/20/99	< 1.5	< 1.5	12	NA
	10/22/98	< 0.3	< 0.3	2.5	NA
	07/23/98	< 0.25 DU	< 0.25 DU	6.02 D	NA
	04/28/98	< 0.25 DU	< 0.25 DU	7.05 D	NA
	02/02/98	< 0.5 DU	< 0.5 DU	8.3 D	NA
	10/23/97	< 0.5 DU	< 0.5 DU	8.3 D	NA
	07/29/97	< 0.25 DU	< 0.25 DU	7.75 D	NA
	04/29/97	< 0.5 DU	< 0.5 DU	10.2 D	NA
231GW24 (shallow)	03/16/06	NA	NA	NA	2.1
	04/05/05	< 0.005	< 0.005	0.88	1.9
	01/20/99	< 0.003	< 0.003	0.871	NA

Table A-10-4
Results of Dissolved Gas and TOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Ethane	Ethene	Methane	TOC
	Analytical Method[1]	RSK 175	RSK 175	RSK 175	SW9060
		(mg/L)	(mg/L)	(mg/L)	(mg/L)
231GW24 (shallow)	01/20/99	< 0.3	< 0.3	1.2	NA
	10/19/98	< 0.3	< 0.3	1.3	NA
	07/20/98	< 0.25 DU	< 0.25 DU	1.05 D	NA
	04/22/98	< 0.13 DU	< 0.13 DU	0.76 D	NA
	02/03/98	< 0.25 DU	< 0.25 DU	1.99 D	NA
	10/29/97	< 0.25 DU	< 0.25 DU	2.2 D	NA
	07/30/97	< 0.25 DU	< 0.25 DU	4.07 D	NA
	04/30/97	< 0.5 DU	< 0.5 DU	5.5 D	NA
231GW25 (shallow)	03/15/06	NA	NA	NA	11
	04/06/05	< 0.005	< 0.005	12	12
	01/21/99	< 0.003	< 0.003	1.37 E	NA
	01/21/99	< 0.6	< 0.6	5.6	NA
	10/19/98	< 0.6	< 0.6	5.6	NA
	07/20/98	< 0.13 DU	< 0.13 DU	3.38 D	NA
	04/22/98	< 0.25 DU	< 0.25 DU	2.45 D	NA
	02/03/98	< 0.25 DU	< 0.25 DU	3.67 D	NA
	10/29/97	< 0.5 DU	< 0.5 DU	8.5 D	NA
	07/30/97	< 2.5 DU	< 2.5 DU	8.3 D	NA
	04/30/97	< 0.5 DU	< 0.5 DU	2.8 D	NA
231GW26 (intermediate)	03/16/06	NA	NA	NA	1.5
	04/06/05	< 0.005	< 0.005	0.04	1.5
	01/21/99	< 0.003	< 0.003	< 0.003	NA
	10/21/98	< 0.003	< 0.003	< 0.003	NA
	07/22/98	< 0.0005	< 0.0005	0.0008	NA
	04/27/98	< 0.001 DU	< 0.001 DU	0.0097 D	NA
	01/29/98	< 0.0025 DU	< 0.0025 DU	0.0402 D	NA
	10/28/97	< 0.005 DU	< 0.005 DU	0.044 D	NA
	07/28/97	< 0.0005	< 0.0005	0.0006	NA
	04/28/97	< 0.005 DU	< 0.005 DU	0.031 D	NA
231GW27 (intermediate)	03/15/06	NA	NA	NA	1.2
	04/06/05	< 0.005	< 0.005	0.032	0.81
	01/21/99	< 0.003	< 0.003	< 0.003	NA
	10/21/98	0.005	0.005	0.0095	NA
	07/22/98	< 0.0005	< 0.0005	0.0063	NA
	04/27/98	< 0.0025 DU	< 0.0025 DU	0.0233 D	NA
	01/29/98	< 0.0025 DU	< 0.0025 DU	0.058 D	NA
	10/28/97	< 0.005 DU	< 0.005 DU	0.031 D	NA
	07/28/97	< 0.0005	< 0.0005	0.0011	NA
	04/28/97	< 0.0025 DU	< 0.0025 DU	0.0205 D	NA
231GW28 (intermediate)	03/15/06	NA	NA	NA	8.4
	04/06/05	< 0.005	< 0.005	4.7	7.8
	01/11/99	< 0.003	< 0.003	0.224 E	NA
	01/11/99	< 0.03	< 0.03	0.23	NA
	10/22/98	< 0.003	< 0.003	< 0.003	NA
	07/23/98	< 0.0005	< 0.0005	0.0081	NA

Table A-10-4
Results of Dissolved Gas and TOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Ethane	Ethene	Methane	TOC
	Analytical Method[1]	RSK 175	RSK 175	RSK 175	SW9060
		(mg/L)	(mg/L)	(mg/L)	(mg/L)
231GW28 (intermediate)	04/28/98	< 0.025 DU	< 0.025 DU	0.703 D	NA
	02/02/98	< 0.250 DU	< 0.250 DU	6.130 D	NA
	10/27/97	< 0.005 DU	< 0.005 DU	0.077 D	NA
	07/29/97	< 0.025 DU	< 0.025 DU	0.067 D	NA
	04/29/97	< 0.5 DU	< 0.5 DU	2.1 D	NA
231GW29 (intermediate)	03/16/06	NA	NA	NA	0.88
	04/06/05	< 0.005	< 0.005	0.009	0.74
	01/21/99	< 0.003	< 0.003	0.0065	NA
	10/22/98	< 0.003	< 0.003	< 0.003	NA
	07/23/98	< 0.0005	< 0.0005	0.0011	NA
	04/28/98	< 0.0005	< 0.0005	0.001	NA
	02/02/98	< 0.0025 DU	< 0.0025 DU	0.0286 D	NA
	10/27/97	< 0.0005	< 0.0005	0.0005	NA
	07/29/97	< 0.0005	< 0.0005	0.0009	NA
	04/29/97	< 0.005 DU	< 0.005 DU	0.013 D	NA
231GW30 (shallow)	03/09/06	NA	NA	NA	5.9
	03/22/05	< 0.005	< 0.005	4.6	4.8
	01/19/99	< 0.003	< 0.003	1.44 E	NA
	01/19/99	< 0.6	< 0.6	6.1	NA
	10/19/98	< 0.3	< 0.3	5.7	NA
	07/20/98	< 0.25 DU	< 0.25 DU	3.74 D	NA
	04/22/98	< 0.13 DU	< 0.13 DU	2.99 D	NA
	02/03/98	< 0.25 DU	< 0.25 DU	3.1 D	NA
	10/29/97	< 0.25 DU	< 0.25 DU	7.04 D	NA
	07/30/97	< 2.5 DU	< 2.5 DU	7.8 D	NA
	04/30/97	< 0.5 DU	< 0.5 DU	3.2 D	NA
231PZ01 (shallow)	03/14/06	NA	NA	NA	45
	04/04/05	< 0.005	< 0.005	12	58
	01/12/99	0.004	< 0.003	1.54	NA
	01/12/99	< 0.6	< 0.6	7.4	NA
	10/13/98	< 0.6	< 0.6	9	NA
	07/14/98	< 0.25 DU	< 0.25 DU	5.96 D	NA
	04/30/98	< 0.13 DU	< 0.13 DU	1.45 D	NA
	02/03/98	< 0.25 DU	< 0.25 DU	6.81 D	NA
231PZ02 (shallow)	03/10/06	NA	NA	NA	45
	04/04/05	< 0.005	< 0.005	4.8	36
	01/12/99	0.0083	< 0.003	1.61	NA
	01/12/99	< 0.6	< 0.6	7.6	NA
	10/13/98	< 0.6	< 0.6	4.9	NA
	07/14/98	< 0.25 DU	< 0.25 DU	1.25 D	NA
	04/30/98	< 0.13 DU	< 0.13 DU	1.91 D	NA
	02/03/98	< 0.25 DU	< 0.25 DU	7.92 D	NA

Table A-10-4
Results of Dissolved Gas and TOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Ethane	Ethene	Methane	TOC
	Analytical Method[1]	RSK 175	RSK 175	RSK 175	SW9060
		(mg/L)	(mg/L)	(mg/L)	(mg/L)
231PZ03 (shallow)	03/14/06	NA	NA	NA	12
	04/04/05	< 0.005	< 0.005	8.3	14
	01/12/99	0.003	0.003	1.42	NA
	01/12/99	< 0.6	< 0.6	4.4	NA
	10/13/98	< 0.6	< 0.6	5.6	NA
	07/14/98	< 0.25 DU	< 0.25 DU	3.8 D	NA
	04/30/98	< 0.25 DU	< 0.25 DU	5.51 D	NA
	02/03/98	< 0.5 DU	< 0.5 DU	10.4 D	NA
231PZ04 (shallow)	03/14/06	NA	NA	NA	14
	04/04/05	0.005	< 0.005	9.1	18
	01/11/99	< 0.003	< 0.003	1.31 E	NA
	01/11/99	< 0.6	< 0.6	3.4	NA
	10/12/98	< 0.6	< 0.6	4.6	NA
	07/13/98	< 0.13 DU	< 0.13 DU	2.14 D	NA
	04/30/98	< 0.25 DU	< 0.25 DU	4.35 D	NA
	02/04/98	< 0.25 DU	< 0.25 DU	2.82 D	NA

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Fourth Quarter 2004.
mg/L - milligrams per liter
TOC - Total Organic Carbon
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-10-5
Results of Arsenic Speciation Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Inorganic Arsenic (As)	Arsenite (As III)	Arsenate (As V) [1]	Percentage of As III	Percentage of As V
	Analytical Method	1632M	1632M	1632M	--	--
		(µg/L)	(µg/L)	(µg/L)	%	%
Cleanup Levels[2]		**10**	--	--	--	--
207GW03 (intermediate)	04/12/05	0.249	0.09	0.159	36	64
231GW06 (intermediate)	04/04/05	5.52	0.168	5.36	3	97
231GW09 (shallow)	08/31/05	0.405 J	< 0.025 JU	0.405 J	<1	>99
	06/01/05	0.371	< 0.025 U	0.371	<1	>99
	04/04/05	0.344	< 0.025 U	0.344	<1	>99
231GW10 (shallow)	03/22/05	**10.6**	9.57	1.04	90	10
231GW11 (shallow)	04/05/05	0.894 J	0.647 J	0.247 J	72	28
231GW13 (deep)	04/05/05	**30.2 J**	1.02 J	29.2 J	3	97
231GW15 (intermediate)	04/05/05	0.322 J	0.159 J	0.164 J	49	51
231GW16 (shallow)	03/22/05	0.112	0.104	0.008 B	93	7
231GW17 (deep)	04/05/05	0.818 J	< 0.025 U	0.818 J	<1	>99
231GW18 (intermediate)	04/05/05	1.25 J	0.011 JB	1.24 J	1	99
231GW19 (shallow)	04/05/05	9.14 J	6.08 J	3.06 J	67	33
231GW20 (deep)	04/06/05	0.809	< 0.025 U	0.809	<1	>99
231GW21 (shallow)	03/31/05	**18.2**	16.6	1.68	91	9
DUP0331052D	03/31/05	**19.1**	15.9	3.15	83	17
231GW22 (shallow)	03/23/05	**23.6**	22.8	0.722 B	97	3
DUP0323052A	03/23/05	**26.2**	27.2	< 0.28 U	96	4
231GW23 (shallow)	04/05/05	5.66 J	4.01 J	1.65 J	71	29
231GW24 (shallow)	04/05/05	4.19 J	2.5 J	1.69 J	60	40
231GW25 (shallow)	04/06/05	**14.2**	10	4.11	71	29

Table A-10-5
Results of Arsenic Speciation Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Inorganic Arsenic (As)	Arsenite (As III)	Arsenate (As V) [1]	Percentage of As III	Percentage of As V
	Analytical Method	1632M	1632M	1632M	--	--
		(µg/L)	(µg/L)	(µg/L)	%	%
Cleanup Levels[2]		**10**	--	--	--	--
231GW26 (intermediate)	04/06/05	2.94	0.098	2.84	3	97
231GW27 (intermediate)	04/06/05	1.03	0.02 B	1.01	2	98
231GW28 (intermediate)	04/06/05	5.01	3.51	1.5	70	30
231GW29 (intermediate)	04/06/05	3.62	0.118	3.5	3	97
231GW30 (shallow)	03/22/05	6.97	7.58	< 0.28 U	>99	<1
231PZ01 (shallow)	04/04/05	7.43	4.63	2.8	62	38
231PZ02 (shallow)	04/04/05	0.387	0.342	0.045	88	12
231PZ03 (shallow)	04/04/05	2.31	1.13	1.19	49	51
231PZ04 (shallow)	04/04/05	6.64	5.44	1.19	82	18

Notes

1 - The concentration of As V was determined by the laboratory by subtracting the As III concentration from the inorganic As concentration. As III has been detected at greater concentrations than inorganic As, due to analytical variability. As V is reported as non-detect when As III is detected at a greater concentration than inorganic As.
2 - From Table 4 of the CAP.
µg/L - micrograms per liter
Bold numbers indicate concentrations which exceed cleanup levels.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-10-6
Results of Dissolved Metals Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		**1,000**	**10**	**10**	**1.1**	**--**	**50**	**2.9**	**--**	**2.5**	**--**	**--**	**8.2**	**--**	**--**	**81**	**--**
207GW03 (intermediate)	06/08/07	< 100	< 5	NA	< 1	14,000	< 10	< 1	< 100	< 3	31,000	< 10	< 20	20,000	190,000	< 20	NA
	03/16/06	< 100 UJ	< 5	NA	< 1	20,000	< 10	< 1	< 100	< 3	35,000	< 10	< 20	21,000	170,000 J	< 20	880 J
	04/12/05	< 100	< 5	0.249	< 1	21,000	< 10	< 1	< 100	< 3	36,000	14	< 20	19,000	170,000	< 20	630
	01/11/99	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	45	NA	NA	NA	NA	724
	10/12/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	51.3	NA	NA	NA	NA	806
	03/05/98	< 100	NA	NA	NA	21,800	< 10	< 1	< 100	NA	36,700	15	< 5	23,600	223,000	NA	3,660
	05/04/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	43	NA	NA	NA	NA	819
	07/09/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	27	NA	NA	NA	NA	739
231GW06 (intermediate)	06/05/07	< 100	NA	7.6	< 1	25,000	< 10	< 1	< 100	< 3	39,000	13	< 20	8,100	46,000	< 20	420 J
	03/15/06	< 100	7.2	NA	< 1	23,000	< 10	1.4	150 J	< 3	35,000	21	< 20	8,100 J	58,000	< 20	440 J
	04/04/05	< 100	6.1	5.52	< 1	30,000	< 10	< 1	< 100	< 3	48,000	24	< 20	7,300	65,000	< 20	420
	01/20/99	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	510
	01/27/98	< 100	NA	NA	NA	23,000	< 10	< 1 B	< 100	NA	45,400	16	**15**	9,560	64,700	NA	487
	01/29/97	NA	NA	NA	NA	NA	NA	NA	< 50	NA	NA	23	NA	NA	NA	NA	464
	10/20/98	NA	NA	NA	NA	NA	NA	NA	113	NA	NA	27	NA	NA	NA	NA	537 B
	10/22/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	25	NA	NA	NA	NA	478
	04/23/97	NA	NA	NA	NA	NA	NA	NA	< 50	NA	NA	23	NA	NA	NA	NA	456
	04/23/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	25	NA	NA	NA	NA	415
	07/21/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	29	NA	NA	NA	NA	347
	07/23/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	12	NA	NA	NA	NA	483
231GW09 (shallow)	06/05/07	< 100	< 5	NA	< 1	26,000	23	< 1	< 100	< 3	42,000	< 10	< 20	< 500	62,000	< 20	470 J
	02/27/07	< 100	< 5	NA	< 1	28,000	24	< 1	< 100	< 3	47,000	< 10	< 20	< 500	68,000	< 20	510
DUP0227072C	02/27/07	< 100	< 5	NA	< 1	28,000	22	< 1	< 100	< 3	46,000	< 10	< 20	< 500	68,000	< 20	490
231GW09CL	02/27/07	< 50	4.7	NA	0.09	26,200	23	1	< 20	< 0.02	45,200	< 5	**17.4**	< 2000	73,300	< 10	500 J-
	12/05/06	< 100	< 5	NA	< 1	25,000	26	< 1	< 100	< 3	41,000	< 10	< 20	< 500 UJ	64,000	< 20	520 J+
DUP1205062B	12/05/06	< 100	< 5	NA	< 1	25,000	26	< 1	180	< 3	40,000	< 10	< 20	< 500 UJ	66,000	< 20	530 J+
231GW09CL	12/05/06	< 100 U	< 2 U	NA	< 1 U	30,200	30	< 2 U	< 100 U	< 1 U	51,000	< 10 U	**18**	< 5,000 U	78,000	< 20 U	490
	08/15/06	< 100	< 5	NA	< 1	27,000	26	< 1	< 100	< 3	42,000	< 10	**23**	< 500	68,000	< 20	490
	05/24/06	< 100	< 5	NA	< 1	27,000	24	< 1	< 100	< 3	48,000	< 10	**43**	< 500	76,000	< 20	480
	03/15/06	< 100	< 5	NA	< 1	15,000	15	< 1	< 100	< 3	24,000	< 10	**29**	< 500	42,000	< 20	320 J
	11/29/05 [4]	< 100	< 5	NA	< 1	22,000	23 J	< 1	< 100	< 3	39,000	< 10	< 20	< 500	63,000	< 20	470
DUP1129052A	11/29/05 [4]	< 100	< 5	NA	< 1	24,000	23 J	1.1	< 100	< 3	40,000	< 10	< 20	< 500	64,000	< 20	540
	08/31/05 [3]	NA	NA	0.405 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	480
	06/01/05 [4]	< 100	< 5	0.371	< 1	28,000	20	< 1	< 100	< 3	41,000	< 10	**40**	< 500 UJ	63,000	< 20	460
	04/04/05	< 100	< 5	0.344	< 1	25,000	19	< 1	< 100	< 3	41,000	< 10	**85**	< 500	62,000	< 20	450
	12/17/04	< 100	< 5	NA	< 1	25,000	21	< 1	< 100	< 3	42,000	< 10	**36**	< 500	65,000	< 20	490
DUP1217042A	12/17/04	< 100	< 5	NA	< 1	26,000	22	< 1	< 100	< 3	43,000	< 10	**36**	< 500	67,000	< 20	470
	08/12/04	< 100	< 5	NA	< 1	29,000	23	< 1 U	110	< 3	47,000	< 10	**63**	< 500	72,000	< 20	430
	05/27/04	< 100	< 5	NA	< 1	27,000	23	< 1	< 100	< 3	45,000	12	**27**	< 500	69,000	< 20	490
DUP0527042C	05/27/04	< 100	< 5	NA	< 1	28,000	24	< 1	< 100	< 3	47,000	12	**27**	< 500	71,000	< 20	510
231GW09CL	05/27/04	< 50	< 5	NA	< 1	28,000	23	**18**	570	< 3	45,000	14	**28**	NA	NA	NA	420
	03/18/04	< 100	< 5	NA	< 1	29,000	20	< 1	< 100	< 3	46,000	< 10	**36**	< 500	74,000	< 20	510 J
	12/04/03	< 100	< 5	NA	< 1	22,000	22	< 1	< 100	< 3	46,000	< 10	**29**	< 500	67,000	< 20	490
	08/15/03	< 100	< 5	NA	< 1	26,000	24	< 1	120	< 3	43,000	< 10	**26**	< 500	65,000	< 20 UJ	440
	06/10/03	< 100	< 5	NA	< 1	28,000	22	< 1	< 100	< 3	47,000	< 10	**24**	< 500	67,000	< 20	470
	01/13/99	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	19	NA	NA	NA	NA	566
	10/14/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	18	NA	NA	NA	NA	530
	07/15/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	544
	04/20/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	19	NA	NA	NA	NA	790
	01/28/98	166	NA	NA	NA	60,200	< 1	< 1	8,640	NA	60,700	1,510	< 5	< 5000	129,000	NA	542
	10/23/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	523
	07/24/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	592
	04/22/97	NA	NA	NA	NA	NA	NA	NA	< 100 J	NA	NA	19	NA	NA	NA	NA	584
	01/28/97	NA	NA	NA	NA	NA	NA	NA	< 50	NA	NA	11	NA	NA	NA	NA	557

Table A-10-6
Results of Dissolved Metals Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		**1,000**	**10**	**10**	**1.1**	**--**	**50**	**2.9**	**--**	**2.5**	**--**	**--**	**8.2**	**--**	**--**	**81**	**--**
231GW10 (shallow)	06/07/07	< 100	10	NA	< 1	64,000	< 10	< 1	16,000	< 3	59,000	1,400	< 20	4,600	100,000	< 20	710
	03/09/06	< 100	8.9	NA	< 1	58,000 J	< 10	< 1	13,000	< 3	66,000	1,100	< 20	4,400	120,000	< 20	750
	03/22/05	< 100	10	**10.6**	< 1	53,000	< 10	< 1	15,000	< 3	68,000	780	< 20	5,400	130,000	< 20	690
	01/25/99	NA	NA	NA	NA	NA	NA	NA	12,400	NA	NA	1,550	NA	NA	NA	NA	734
	10/19/98	NA	NA	NA	NA	NA	NA	NA	6,720	NA	NA	437	NA	NA	NA	NA	852 B
	07/22/98	NA	NA	NA	NA	NA	NA	NA	6,910	NA	NA	443	NA	NA	NA	NA	813
	04/23/98	NA	NA	NA	NA	NA	NA	NA	7,640	NA	NA	912	NA	NA	NA	NA	767
	01/28/98	< 100	NA	NA	NA	28,000	15	1.2	< 100	NA	44,600	< 10	**105**	< 5000	73,200	NA	767
	10/22/97	NA	NA	NA	NA	NA	NA	NA	5,790	NA	NA	550	NA	NA	NA	NA	794
	07/23/97	NA	NA	NA	NA	NA	NA	NA	5,860	NA	NA	420	NA	NA	NA	NA	807
	04/23/97	NA	NA	NA	NA	NA	NA	NA	7,580	NA	NA	474	NA	NA	NA	NA	746
	01/29/97	NA	NA	NA	NA	NA	NA	NA	1,880	NA	NA	1,830	NA	NA	NA	NA	780
231GW11 (shallow)	06/07/07	< 100	< 5	NA	< 1	24,000	< 10	< 1	600	< 3	44,000	74	< 20	8,600	86,000	< 20	510
	03/15/06	< 100	< 5	NA	< 1	29,000	< 10	< 1	820 J	< 3	44,000	78	< 20	9,000 J	99,000	21	500 J
	04/05/05	< 100	< 5	0.894 J	< 1	32,000	< 10	< 1	4,500	< 3	57,000	180	< 20	11,000	92,000	< 20	510
	01/11/99	NA	NA	NA	NA	NA	NA	NA	3,980	NA	NA	200	NA	NA	NA	NA	550
	10/12/98	NA	NA	NA	NA	NA	NA	NA	1,570	NA	NA	119	NA	NA	NA	NA	551
	07/13/98	NA	NA	NA	NA	NA	NA	NA	1,060	NA	NA	102	NA	NA	NA	NA	492
	04/21/98	NA	NA	NA	NA	NA	NA	NA	3,540	NA	NA	167	NA	NA	NA	NA	509
	01/26/98	< 100	NA	NA	NA	32,300	< 10	< 1 B	5,210	NA	56,900	246	< 5	11,700	74,100	NA	524
	10/21/97	NA	NA	NA	NA	NA	NA	NA	4,340	NA	NA	192	NA	NA	NA	NA	542
	07/21/97	NA	NA	NA	NA	NA	NA	NA	1,550	NA	NA	101	NA	NA	NA	NA	565
	04/21/97	NA	NA	NA	NA	NA	NA	NA	3,610	NA	NA	164	NA	NA	NA	NA	547
	01/28/97	NA	NA	NA	NA	NA	NA	NA	2,410	NA	NA	162	NA	NA	NA	NA	546
231GW13 (deep)	06/05/07	< 100	**31**	NA	< 1	2,600	< 10	**7.4**	250	< 3	5,400	59	< 20	7,000	310,000	< 20	810 J
DUP0605072B	06/05/07	< 100	**29**	NA	< 1	2,600	< 10	**35**	340	< 3	5,300	61	< 20	6,900	290,000	33	840 J
	03/14/06	< 100	**35**	NA	< 1	1,600	< 10	**5.7**	170	< 3	4,200	100	< 20	6,600	330,000	< 20	640
	04/05/05	< 100	**32**	**30.2 J**	< 1	1,700	< 10	**5.5**	220	< 3	4,100	82	< 20	6,600	280,000	< 20	690
	01/14/99	NA	NA	NA	NA	NA	NA	NA	733	NA	NA	92	NA	NA	NA	NA	802
	10/15/98	NA	NA	NA	NA	NA	NA	NA	480	NA	NA	87	NA	NA	NA	NA	772
	07/16/98	NA	NA	NA	NA	NA	NA	NA	852	NA	NA	19	NA	NA	NA	NA	673
	04/21/98	NA	NA	NA	NA	NA	NA	NA	755	NA	NA	91	NA	NA	NA	NA	714
	01/26/98	107	NA	NA	NA	1,670	< 10	**7.8**	1,020	NA	3,900	85	**11**	5,810	254,000	NA	653
	10/20/97	NA	NA	NA	NA	NA	NA	NA	1,030	NA	NA	75	NA	NA	NA	NA	750
	07/21/97	NA	NA	NA	NA	NA	NA	NA	892	NA	NA	16.6	NA	NA	NA	NA	778
	04/21/97	NA	NA	NA	NA	NA	NA	NA	999	NA	NA	85	NA	NA	NA	NA	786
	01/27/97	NA	NA	NA	NA	NA	NA	NA	568	NA	NA	96	NA	NA	NA	NA	818
	04/10/95	NA	NA	NA	NA	3,000	NA	NA	2,000	**< 5**	5,000	NA	NA	8,000	260,000	NA	920
231GW15 (intermediate)	06/07/07	450	< 5	NA	< 1	26,000	< 10	**3.8**	1,500	< 3	44,000	86	< 20	11,000	57,000	< 20	470
	03/14/06	< 100	< 5	NA	< 1	33,000	< 10	< 1	330	< 3	37,000	190	< 20	12000	51,000	< 20	510
	04/05/05	< 100	< 5	0.322 J	< 1	38,000	< 10	< 1	600	< 3	49,000	180	< 20	12,000	56,000	< 20	430
	01/14/99	NA	NA	NA	NA	NA	NA	NA	< 284	NA	NA	158	NA	NA	NA	NA	444
	10/15/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	16	NA	NA	NA	NA	402
	07/16/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	14	NA	NA	NA	NA	352
	04/21/98	NA	NA	NA	NA	NA	NA	NA	134	NA	NA	162	NA	NA	NA	NA	389
	01/26/98	< 100	NA	NA	NA	32,000	< 10	< 1 B	< 100	NA	40,200	71	< 5	10,600	50,300	NA	403
	10/20/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	419
	07/21/97	NA	NA	NA	NA	NA	NA	NA	341	NA	NA	155	NA	NA	NA	NA	441
	04/21/97	NA	NA	NA	NA	NA	NA	NA	279	NA	NA	151	NA	NA	NA	NA	404
	01/27/97	NA	NA	NA	NA	NA	NA	NA	< 50	NA	NA	87	NA	NA	NA	NA	448
	04/07/95	NA	NA	NA	NA	34,000	NA	NA	500	< 5	41,000	NA	NA	11,000	60,000	NA	790

Table A-10-6
Results of Dissolved Metals Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		**1,000**	**10**	**10**	**1.1**	**--**	**50**	**2.9**	**--**	**2.5**	**--**	**--**	**8.2**	**--**	**--**	**81**	**--**
231GW16 (shallow)	06/07/07	< 100	< 5	NA	< 1	68,000	< 10	< 1	1,100	< 3	39,000	470	< 20	17,000	270,000	< 20	1,130
	03/09/06	< 100	< 5	NA	< 1	54,000 J	< 10	< 1	890	< 3	37,000	390	< 20	16,000	220,000	< 20	980
	03/22/05	< 100	< 5	0.112	< 1	69,000	< 10	< 1	1,300	< 3	37,000	380	< 20	14,000	150,000	< 20	750
	01/14/99	NA	NA	NA	NA	NA	NA	NA	1,110	NA	NA	402	NA	NA	NA	NA	939
	10/15/98	NA	NA	NA	NA	NA	NA	NA	561	NA	NA	414	NA	NA	NA	NA	791
	07/16/98	NA	NA	NA	NA	NA	NA	NA	1,000	NA	NA	525	NA	NA	NA	NA	1,370
	04/21/98	NA	NA	NA	NA	NA	NA	NA	1,260	NA	NA	355	NA	NA	NA	NA	809
	01/26/98	< 100	NA	NA	NA	50,400	< 10	< 1 B	432	NA	29,300	408	< 5	14,800	171,000	NA	990
	10/20/97	NA	NA	NA	NA	NA	NA	NA	1,290	NA	NA	295	NA	NA	NA	NA	124
	07/21/97	NA	NA	NA	NA	NA	NA	NA	2,190	NA	NA	516	NA	NA	NA	NA	1,270
	04/24/97	NA	NA	NA	NA	NA	NA	NA	407	NA	NA	347	NA	NA	NA	NA	819
	04/24/97	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,010
	01/30/97	NA	NA	NA	NA	NA	NA	NA	2,600	NA	NA	565	NA	NA	NA	NA	800
231GW17 (deep)	06/07/07	< 100	< 5	NA	< 1	13,000	18	< 1	< 100	< 3	50,000	< 10	< 20	640	39,000	< 20	410
	03/15/06	< 100	< 5	NA	< 1	15,000	19	< 1	< 100 UJ	< 3	48,000	< 10	< 20	790 J	43,000	< 20	480 J
	04/05/05	< 100	< 5	0.818 J	< 1	15,000	20	< 1	< 100	< 3	49,000	< 10	< 20	760	40,000	< 20	360
	01/13/99	NA	NA	NA	NA	NA	NA	NA	429	NA	NA	15	NA	NA	NA	NA	NA
	10/14/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	374
	07/15/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	369
	04/20/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	396
	01/27/98	< 100	NA	NA	NA	13,900	19	< 1 B	< 100	NA	42,800	< 10	< 5	< 5000	37,300	NA	387
	10/21/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	367
	07/22/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	372
	04/22/97	NA	NA	NA	NA	NA	NA	NA	451	NA	NA	< 10 J	NA	NA	NA	NA	352
	01/28/97	NA	NA	NA	NA	NA	NA	NA	< 50	NA	NA	< 10	NA	NA	NA	NA	400
	04/10/95	NA	NA	NA	NA	13,000	NA	NA	1,700	< 5	37,000	NA	NA	3,000	35,000	NA	410
231GW18 (intermediate)	06/07/07	< 100	< 5	NA	< 1	24,000	15	< 1	< 100	< 3	59,000	< 10	< 20	1,800	55,000	< 20	490
	03/15/06	< 100	< 5	NA	< 1	27,000	14	< 1	< 100 UJ	< 3	55,000	< 10	< 20	1,300 J	58,000	< 20	520 J
	04/05/05	< 100	< 5	1.25 J	< 1	23,000	15	< 1	150	< 3	50,000	< 10	< 20	1,200	44,000	< 20	430
	01/13/99	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	522
	10/14/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	466
	07/15/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	469
	04/20/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	484
	01/27/98	< 100	NA	NA	NA	23,400	14.1	< 1 B	< 100	NA	50,400	< 10	< 5	< 5000	45,800	NA	480
	10/21/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	475
	07/22/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	489
	04/22/97	NA	NA	NA	NA	NA	NA	NA	117	NA	NA	< 10 J	NA	NA	NA	NA	472
	01/28/97	NA	NA	NA	NA	NA	NA	NA	< 50	NA	NA	< 10	NA	NA	NA	NA	500
	04/10/95	NA	NA	NA	NA	22,000	NA	NA	2,200	< 5	46,000	NA	NA	2,000	52,000	NA	500
231GW19 (shallow)	06/07/07	< 100	**18**	NA	< 1	39,000	< 10	1.1	16,000	< 3	30,000	970	< 20	8,000	63,000	20	430
	03/16/06	< 100 UJ	9.2	NA	< 1	38,000	< 10	< 1	12,000	< 3	29,000	750	< 20	5,200	50,000 J	< 20	420 J
	04/05/05	< 100	8.2	9.14 J	< 1	26,000	< 10	< 1	8,400	< 3	19,000	460	< 20	4,300	46,000	< 20	260
	01/13/99	NA	NA	NA	NA	NA	NA	NA	15,100	NA	NA	792	NA	NA	NA	NA	484
	10/14/98	NA	NA	NA	NA	NA	NA	NA	7,740	NA	NA	506	NA	NA	NA	NA	482
	07/15/98	NA	NA	NA	NA	NA	NA	NA	9,790	NA	NA	636	NA	NA	NA	NA	437
	04/20/98	NA	NA	NA	NA	NA	NA	NA	6,250	NA	NA	657	NA	NA	NA	NA	529
	01/27/98	< 100	NA	NA	NA	49,100	< 10	< 1 B	4,170	NA	41,400	443	5.3	< 5000	52,700	NA	465
	10/20/97	NA	NA	NA	NA	NA	NA	NA	7,000	NA	NA	499	NA	NA	NA	NA	452
	07/22/97	NA	NA	NA	NA	NA	NA	NA	7,330	NA	NA	501	NA	NA	NA	NA	428
	04/21/97	NA	NA	NA	NA	NA	NA	NA	11,600	NA	NA	778	NA	NA	NA	NA	521
	01/27/97	NA	NA	NA	NA	NA	NA	NA	1,740	NA	NA	267	NA	NA	NA	NA	376
	04/10/95	NA	NA	NA	NA	49,000	NA	NA	9,200	**< 5**	50,000	NA	NA	6,000	72,000	NA	650

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Results of Dissolved Metals Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		**1,000**	**10**	**10**	**1.1**	--	**50**	**2.9**	--	**2.5**	--	--	**8.2**	--	--	**81**	--
231GW20 (deep)	06/05/07	< 100	< 5	NA	**1.6**	13,000	< 10	**4.3**	< 100	< 3	3,800	< 10	< 20	2,200	8,400	< 20	42 J
DUP0605072A	06/05/07	< 100	< 5	NA	< 1	14,000	< 10	**3.7**	< 100	< 3	3,900	< 10	< 20	2,200	8,600	< 20	90 J
	03/15/06	< 100	< 5	NA	< 1	15,000	< 10	**2.8**	< 100 UJ	< 3	9,100	< 10	< 20	2,400 J	14,000	< 20	240 J
	04/06/05	< 100	< 5	0.809	< 1	13,000	< 10	< 1	< 100	< 3	34,000	< 10	< 20	820	43,000	< 20	220
	01/20/99	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	372
	10/20/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	397 B
	07/21/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	354
	04/23/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	353
	01/29/98	< 100	NA	NA	NA	13,600	6	< 1	< 100	NA	42,900	< 10	< 5	< 5000	46,100	NA	390
	10/22/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	365
	07/23/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	385
	04/23/97	NA	NA	NA	NA	NA	NA	NA	< 100 J	NA	NA	< 10 J	NA	NA	NA	NA	342
	04/11/95	NA	NA	NA	NA	13,000	NA	NA	1,600	**7**	42,000	NA	NA	1,000	43,000	NA	350
231GW21 (shallow)	06/07/07	< 100	**21**	NA	< 1	71,000	< 10	< 1	27,000	**3.6**	49,000	1,500	< 20	4,200	46,000	< 20	550
	03/08/06	< 100	**18**	NA	< 1	60,000	< 10	< 1	21,000	**4.6**	49,000	970	< 20	4,000	47,000	< 20	580
DUP0308061A	03/08/06	< 100	**22**	NA	< 1	62,000	< 10	< 1	20,000	**6.3**	57,000	820	< 20	5,100	54,000	< 20	570
231GW21CL	03/08/06	< 100 U	**19**	NA	< 1 U	68,000	< 10 U	< 2 U	24,000 J+	**4.2**	50,000	1,100	3.6	< 5,000 U	48,000	< 20 U	530
	03/31/05	< 100	**21**	**18.2**	< 1	74,000 J	< 10	< 1	28,000	**5.1**	61,000	1,600 J	< 20	5,700	60,000	< 20	540 J-
DUP0331052D	03/31/05	< 100	**23**	**19.1**	< 1	76,000 J	< 10	< 1	25,000	**6.4**	57,000	1,400 J	< 20	6,400	57,000	< 20	590 J-
231GW21CL	03/31/05	< 100 U	6.45	NA	< 1 U	85,600	< 10 U	< 2 U	1,720	< 1 U	40,500	3,710	< 2 U	5,540	93,000	< 20 U	655
	01/20/99	NA	NA	NA	NA	NA	NA	NA	19,700	NA	NA	2,620	NA	NA	NA	NA	766
	10/20/98	NA	NA	NA	NA	NA	NA	NA	29,600	NA	NA	3,020	NA	NA	NA	NA	415 B
	07/23/98	NA	NA	NA	NA	NA	NA	NA	32,200	NA	NA	3,430	NA	NA	NA	NA	809
	05/01/98	NA	NA	NA	NA	NA	NA	NA	32,900	NA	NA	3,960	NA	NA	NA	NA	860
	01/28/98	< 100	NA	NA	NA	103,000	1.1	< 1	30,100	NA	85,500	3,230	**25**	5,200	69,000	NA	868
	10/27/97	NA	NA	NA	NA	NA	NA	NA	7,730	NA	NA	2,080	NA	NA	NA	NA	813
	07/24/97	NA	NA	NA	NA	NA	NA	NA	27,300	NA	NA	3,610	NA	NA	NA	NA	885
	04/24/97	NA	NA	NA	NA	NA	NA	NA	26,100	**8.7**	NA	3,910	NA	NA	NA	NA	751
	01/30/97	NA	NA	NA	NA	NA	NA	NA	8,780	NA	NA	2,680	NA	NA	NA	NA	776
	04/12/95	NA	NA	NA	NA	82,000	NA	NA	3,200	< 5	69,000	NA	NA	7,000	73,000	NA	470
231GW22 (shallow)	06/07/07	< 100	**33**	NA	< 1	75,000	< 10	< 1	32,000	< 3	82,000	1,300	< 20	35,000	83,000	< 20	830
	03/09/06	< 100	**31**	NA	< 1	69,000 J	< 10	< 1	31,000	< 3	85,000	1,300	< 20	37,000	83,000	< 20	1,030
DUP0309061A	03/09/06	< 100	**31**	NA	< 1	71,000 J	< 10	< 1	31,000	< 3	86,000	1,400	< 20	38,000	85,000	21	1,170
	03/23/05	< 100	**30**	**23.6**	< 1	75,000	< 10	< 1	30,000	< 3	87,000	1,300	< 20	36,000	91,000	< 20	830
DUP0323052A	03/23/05	< 100	**30**	**26.2**	< 1	78,000	< 10	< 1	33,000	< 3	87,000	1,300	< 20	39,000	92,000	< 20	830
	01/21/99	NA	NA	NA	NA	NA	NA	NA	17,200	NA	NA	1,470	NA	NA	NA	NA	915
	10/21/98	NA	NA	NA	NA	NA	NA	NA	15,800	NA	NA	1,610	NA	NA	NA	NA	936 B
	07/22/98	NA	NA	NA	NA	NA	NA	NA	8,380	NA	NA	1,330	NA	NA	NA	NA	829
	04/27/98	NA	NA	NA	NA	NA	NA	NA	7,180	NA	NA	1,380	NA	NA	NA	NA	917
	01/29/98	< 100	NA	NA	NA	64,600	1.4	< 1	4,350	NA	81,500	1,300	7.7	22,000	113,000	NA	908
	10/28/97	NA	NA	NA	NA	NA	NA	NA	4,470	NA	NA	1,420	NA	NA	NA	NA	899
	07/28/97	NA	NA	NA	NA	NA	NA	NA	6,220	NA	NA	1,660	NA	NA	NA	NA	995
	04/28/97	NA	NA	NA	NA	NA	NA	NA	1,260	**4.9**	NA	951	NA	NA	NA	NA	NA
231GW23 (shallow)	06/07/07	< 100	7.6	NA	< 1	50,000	< 10	< 1	31,000	< 3	73,000	2,500	< 20	19,000	68,000	< 20	660
	03/15/06	< 100	< 5	NA	< 1	46,000	< 10	1.1	22,000 J	< 3	52,000	2,000	< 20	16,000 J	63,000	< 20	600 J
	04/05/05	< 100	6.1	5.66 J	< 1	51,000	< 10	< 1	25,000	< 3	66,000	2,200	< 20	18,000	62,000	< 20	370
	01/20/99	NA	NA	NA	NA	NA	NA	NA	21,900	NA	NA	1,550	NA	NA	NA	NA	547
	10/22/98	NA	NA	NA	NA	NA	NA	NA	21,500	NA	NA	1,710	NA	NA	NA	NA	558
	07/23/98	NA	NA	NA	NA	NA	NA	NA	23,000	NA	NA	1,700	NA	NA	NA	NA	539
	04/28/98	NA	NA	NA	NA	NA	NA	NA	22,700	NA	NA	1,610	NA	NA	NA	NA	504

Table A-10-6
Results of Dissolved Metals Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		**1,000**	**10**	**10**	**1.1**	--	**50**	**2.9**	--	**2.5**	--	--	**8.2**	--	--	**81**	--
231GW23 (shallow)	02/02/98	< 100	NA	NA	NA	39,200	< 10	< 1	22,600	NA	58,100	1,640	< 5	20,600	57,700	NA	576
	10/23/97	NA	NA	NA	NA	NA	NA	NA	21,000	NA	NA	1,620	NA	NA	NA	NA	586
	07/29/97	NA	NA	NA	NA	NA	NA	NA	15,800	NA	NA	1,680	NA	NA	NA	NA	546
	04/29/97	NA	NA	NA	NA	NA	NA	NA	4,100	NA	NA	1,980	NA	NA	NA	NA	580
231GW24 (shallow)	06/07/07	< 100	5.9	NA	< 1	23,000	< 10	< 1	3,500	< 3	50,000	130	< 20	3,600	49,000	< 20	430
	03/16/06	< 100 UJ	< 5	NA	< 1	25,000	< 10	< 1	810	< 3	43,000	170	< 20	3,400	44,000 J	< 20	470 J
	04/05/05	< 100	< 5	4.19 J	< 1	18,000	< 10	< 1	1,700	< 3	39,000	130	< 20	3,600	45,000	< 20	320
	01/20/99	NA	NA	NA	NA	NA	NA	NA	1,890	NA	NA	58.3	NA	NA	NA	NA	443
	10/19/98	NA	NA	NA	NA	NA	NA	NA	1,270	NA	NA	60	NA	NA	NA	NA	419 B
	07/20/98	NA	NA	NA	NA	NA	NA	NA	1,090	NA	NA	66	NA	NA	NA	NA	407
	04/22/98	NA	NA	NA	NA	NA	NA	NA	953	NA	NA	73	NA	NA	NA	NA	405
	02/03/98	< 100	NA	NA	NA	27,800	< 10	< 1	682	NA	43,100	65	< 5	< 5000	42,000	NA	428
	10/29/97	NA	NA	NA	NA	NA	NA	NA	1,430	NA	NA	60	NA	NA	NA	NA	434
	07/30/97	NA	NA	NA	NA	NA	NA	NA	1,350	NA	NA	74	NA	NA	NA	NA	367
	04/30/97	NA	NA	NA	NA	NA	NA	NA	2,080	NA	NA	148	NA	NA	NA	NA	384
231GW25 (shallow)	06/07/07	< 100	**15**	NA	< 1	87,000	< 10	1.7	31,000	< 3	67,000	3,700	< 20	9,800	160,000	< 20	880
	03/15/06	< 100	**14**	NA	< 1	95,000	< 10	< 1	29,000 J	< 3	66,000	3,900	< 20	9,200 J	150,000	< 20	610 J
	04/06/05	< 100	**14**	**14.2**	< 1	77,000	< 10	< 1	18,000	< 3	58,000	3,000	< 20	8,900	120,000	< 20	730
	01/21/99	NA	NA	NA	NA	NA	NA	NA	13,700	NA	NA	3,120	NA	NA	NA	NA	819
	10/19/98	NA	NA	NA	NA	NA	NA	NA	11,600	NA	NA	2,420	NA	NA	NA	NA	824 B
	07/20/98	NA	NA	NA	NA	NA	NA	NA	9,900	NA	NA	3,270	NA	NA	NA	NA	783
	04/22/98	NA	NA	NA	NA	NA	NA	NA	10,400	NA	NA	3,340	NA	NA	NA	NA	863
	02/03/98	< 100	NA	NA	NA	86,400	< 10	< 1	8,140	NA	63,400	5,040	7.6	11,300	136,000	NA	889
	10/29/97	NA	NA	NA	NA	NA	NA	NA	5,060	NA	NA	2,580	NA	NA	NA	NA	928
	07/30/97	NA	NA	NA	NA	NA	NA	NA	1,770	NA	NA	2,330	NA	NA	NA	NA	630
	04/30/97	NA	NA	NA	NA	NA	NA	NA	1,660	NA	NA	1,780	NA	NA	NA	NA	750
231GW26 (intermediate)	06/08/07	< 100	< 5	NA	< 1	21,000	< 10	< 1	< 100	< 3	39,000	< 10	< 20	1,300	44,000	< 20	NA
	03/16/06	< 100 UJ	< 5	NA	< 1	27,000	< 10	< 1	< 100	< 3	43,000	< 10	< 20	1,600	60,000 J	< 20	440 J
	04/06/05	< 100	< 5	2.94	< 1	31,000	< 10	< 1	< 100	< 3	47,000	13	< 20	1,800	67,000	< 20	480
	01/21/99	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	16	NA	NA	NA	NA	525
	10/21/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	30	NA	NA	NA	NA	578 B
	07/22/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	19	NA	NA	NA	NA	349
	04/27/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	19	NA	NA	NA	NA	545
	01/29/98	< 100	NA	NA	NA	29,700	< 1	< 1	< 100	NA	43,900	18	8.1	< 5000	56,700	NA	492
	10/28/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	20	NA	NA	NA	NA	493
	07/28/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	30	NA	NA	NA	NA	545
	04/28/97	NA	NA	NA	NA	NA	NA	NA	< 50	1.1	NA	48	NA	NA	NA	NA	536
231GW27 (intermediate)	06/08/07	< 100	< 5	NA	< 1	25,000	27	< 1	< 100	< 3	52,000	< 10	< 20	660	52,000	< 20	NA
	03/15/06	< 100	< 5	NA	< 1	30,000	30	< 1	< 100 UJ	< 3	53,000	< 10	< 20	670 J	57,000	< 20	490 J
	04/06/05	< 100	< 5	1.03	< 1	29,000	23	< 1	< 100	< 3	55,000	< 10	< 20	600	51,000	< 20	440
	01/21/99	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	10	NA	NA	NA	NA	83
	10/21/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	498 B
	07/22/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	371
	04/27/98	NA	NA	NA	NA	NA	NA	NA	182	NA	NA	< 10	NA	NA	NA	NA	475
	01/29/98	< 100	NA	NA	NA	16,600	11.1	< 1	< 100	NA	25,800	< 10	< 5	< 5,000	25,500	NA	240
	10/28/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	473
	07/28/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	445
	04/28/97	NA	NA	NA	NA	NA	NA	NA	< 50	NA	NA	15	NA	NA	NA	NA	452

Table A-10-6
Results of Dissolved Metals Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		**1,000**	**10**	**10**	**1.1**	**--**	**50**	**2.9**	**--**	**2.5**	**--**	**--**	**8.2**	**--**	**--**	**81**	**--**
231GW28 (intermediate)	06/05/07	< 100	< 5	NA	< 1	48,000	< 10	< 1	11,000	< 3	38,000	1,300	< 20	2,400	33,000	< 20	410 J
	03/15/06	< 100	6.3	NA	< 1	53,000	< 10	< 1	16,000 J	< 3	32,000	1,400	< 20	3,100 J	26,000	< 20	370 J
	04/06/05	< 100	5.8	5.01	< 1	43,000	< 10	< 1	15,000	< 3	36,000	760	< 20	2,000	36,000	< 20	380
	01/11/99	NA	NA	NA	NA	NA	NA	NA	3,020	NA	NA	192	NA	NA	NA	NA	396
	10/22/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	19.2	NA	NA	NA	NA	426
	07/23/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	84	NA	NA	NA	NA	385
	04/28/98	NA	NA	NA	NA	NA	NA	NA	934	NA	NA	92	NA	NA	NA	NA	131
	02/02/98	< 100	NA	NA	NA	19,800	< 10	< 1	1,610	NA	31,600	128	7.7	< 5,000	49,600	NA	397
	10/27/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	41	NA	NA	NA	NA	390
	07/29/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	71	NA	NA	NA	NA	409
	04/29/97	NA	NA	NA	NA	NA	NA	NA	315	NA	NA	370	NA	NA	NA	NA	424
231GW29 (intermediate)	06/06/07	< 100	< 5	NA	< 1	27,000	< 10	< 1	< 100	< 3	53,000	140	< 20	4,000	46,000	< 20	500
DUP0606072A	06/06/07	< 100	< 5	NA	< 1	27,000	< 10	< 1	< 100	< 3	54,000	150	< 20	4,000	49,000	< 20	470
231GW29CL	06/06/07	< 50	0.24	4	0.13	27,400	< 5	0.6	< 20	< 0.05	56,800	161	2.9	4,690	51,400	< 10	469
	03/16/06	< 100 UJ	< 5	NA	< 1	29,000	< 10	< 1	< 100	< 3	58,000	130	< 20	4,400	51,000 J	< 20	590 J
	04/06/05	< 100	< 5	3.62	< 1	28,000	< 10	< 1	< 100	< 3	54,000	170	< 20	4,000	47,000	< 20	510
	01/21/99	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	150	NA	NA	NA	NA	486
	10/22/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	233	NA	NA	NA	NA	486
	07/23/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	22	NA	NA	NA	NA	461
	04/28/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	62	NA	NA	NA	NA	467
	02/02/98	< 100	NA	NA	NA	29,000	< 10	< 1	< 100	NA	54,800	177	< 5	< 5,000	48,100	NA	520
	10/27/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	25	NA	NA	NA	NA	485
	07/29/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	56	NA	NA	NA	NA	470
	04/29/97	NA	NA	NA	NA	NA	NA	NA	< 50	NA	NA	206	NA	NA	NA	NA	452
231GW30 (shallow)	06/07/07	< 100	**15**	NA	< 1	96,000	< 10	< 1	12,000	< 3	31,000	1,800	< 20	14,000	100,000	< 20	610
	03/09/06	< 100	7.2	NA	< 1	88,000 J	< 10	< 1	3,800	< 3	28,000	1,200	< 20	8,200	81,000	< 20	720
	03/22/05	< 100	6.8	6.97	< 1	71,000	< 10	1.2	3,400	< 3	22,000	920	< 20	8,400	83,000	< 20	540
	01/19/99	NA	NA	NA	NA	NA	NA	NA	5,750	NA	NA	1,980	NA	NA	NA	NA	946
	10/19/98	NA	NA	NA	NA	NA	NA	NA	6,150	NA	NA	2,000	NA	NA	NA	NA	1010 B
	07/20/98	NA	NA	NA	NA	NA	NA	NA	1,740	NA	NA	1,800	NA	NA	NA	NA	890
	04/22/98	NA	NA	NA	NA	NA	NA	NA	3,130	NA	NA	1,830	NA	NA	NA	NA	901
	02/03/98	< 100	NA	NA	NA	132,000	< 10	1.5	1,680	NA	50,000	1,550	**8.9**	17,100	137,000	NA	971
	10/29/97	NA	NA	NA	NA	NA	NA	NA	1,750	NA	NA	1,880	NA	NA	NA	NA	1,060
	07/30/97	NA	NA	NA	NA	NA	NA	NA	1,850	NA	NA	1,800	NA	NA	NA	NA	1,070
	04/30/97	NA	NA	NA	NA	NA	NA	NA	692	NA	NA	1,560	NA	NA	NA	NA	1,050
231PZ01 (shallow)	03/14/06	< 100	**22**	NA	< 1	130,000	< 10	1	41,000	**6.3**	79,000	3,000	< 20	38,000	86,000	22	1,120
	04/04/05	< 200	**17**	7.43	< 1	110,000	< 10	< 1	41,000	**5.4**	85,000	2,400	< 20	29,000	100,000	< 20	900
	01/12/99	NA	NA	NA	NA	NA	NA	NA	43,600	NA	NA	2,180	NA	NA	NA	NA	1,060
	10/13/98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,080
	07/14/98	NA	NA	NA	NA	NA	NA	NA	25,000	NA	NA	1,080	NA	NA	NA	NA	961
	04/30/98	NA	NA	NA	NA	NA	NA	NA	14,600	NA	NA	1,340	NA	NA	NA	NA	894
	02/03/98	< 100	NA	NA	NA	73,000	< 10	< 1	21,900	NA	78,500	1,230	< 5	24,500	87,500	NA	804
231PZ02 (shallow)	03/10/06	< 100	< 5	NA	< 1	160,000 J	< 10	< 1	5,600	< 3	58,000	2,800	< 20	8,300	180,000	< 20	960
	04/04/05	< 200	< 5	0.387	< 1	140,000	< 10	< 1	3,300	< 3	55,000	2,700	< 20	7,600	130,000	< 20	900
	07/14/98	NA	NA	NA	NA	NA	NA	NA	796	NA	NA	1,320	NA	NA	NA	NA	1,200
	04/30/98	NA	NA	NA	NA	NA	NA	NA	1,310	NA	NA	1,670	NA	NA	NA	NA	882
	02/03/98	< 100	NA	NA	NA	131,000	< 10	< 1	2,820	NA	65,800	3,580	**9.3**	8,380	125,000	NA	1,080

Table A-10-6
Results of Dissolved Metals Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		**1,000**	**10**	**10**	**1.1**	--	**50**	**2.9**	--	**2.5**	--	--	**8.2**	--	--	**81**	--
231PZ03 (shallow)	06/07/07	< 100	8.5	NA	< 1	99,000	< 10	< 1	20,000	< 3	61,000	2,400	< 20	8,300	53,000	< 20	670
	03/14/06	< 100	< 5	NA	< 1	85,000	< 10	< 1	16,000	< 3	48,000	2,200	< 20	5100	48,000	< 20	790
	04/04/05	< 200	< 5	2.31	< 1	77,000	< 10	< 1	15,000	< 3	54,000	2,100	< 20	4,200	51,000	< 20	540
	01/12/99	NA	NA	NA	NA	NA	NA	NA	265	NA	NA	737	NA	NA	NA	NA	603
	10/13/98	NA	NA	NA	NA	NA	NA	NA	363	NA	NA	882	NA	NA	NA	NA	601
	07/14/98	NA	NA	NA	NA	NA	NA	NA	3,580	NA	NA	1,980	NA	NA	NA	NA	594
	04/30/98	NA	NA	NA	NA	NA	NA	NA	13,200	NA	NA	2,930	NA	NA	NA	NA	594
	02/03/98	< 100	NA	NA	NA	42,100	< 10	< 1	2,020	NA	43,500	902	< 5	22,300	88,700	NA	584
231PZ04 (shallow)	06/07/07	< 100	**12**	NA	< 1	97,000	< 10	< 1	20,000	< 3	60,000	2,500	< 20	8,000	49,000	< 20	670
	03/14/06	< 100	10	NA	< 1	94,000	< 10	< 1	20,000	< 3	54,000	2,400	< 20	6,000	51,000	< 20	710
	04/04/05	< 200	10	6.64	< 1	89,000	< 10	< 1	21,000	< 3	61,000	2,400	< 20	5,700	51,000	< 20	610
	01/11/99	NA	NA	NA	NA	NA	NA	NA	2,370	NA	NA	1,230	NA	NA	NA	NA	621
	10/12/98	NA	NA	NA	NA	NA	NA	NA	4,440	NA	NA	1,490	NA	NA	NA	NA	640
	07/13/98	NA	NA	NA	NA	NA	NA	NA	9,050	NA	NA	2,710	NA	NA	NA	NA	634
	04/30/98	NA	NA	NA	NA	NA	NA	NA	13,000	NA	NA	3,590	NA	NA	NA	NA	640
	02/04/98	< 100	NA	NA	NA	154,000	< 1	< 1	13,000	NA	61,800	5,630	7.9	< 5000	42,500	NA	854

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the First Quarter 2005.
2 - From Table 4 of the CAP.
3 - Due to computer/review error by the laboratory, sample 231GW09 was not analyzed by ICP-MS for the list of 22 metals. The sample had already been disposed of when the omission was discovered.
4 - Additional metals were analyzed as part of Fill Site 6 and are presented in Table A-3-3.
The analytical methods used during previous quarters are identified in the respective quarterly reports.
µg/L - micrograms per liter
mg/L - milligrams per liter
NA - Not analyzed
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historic data qualifiers.

Bold numbers - indicate concentrations which exceed cleanup levels.
-- Cleanup level not established.

Table A-10-7
Groundwater Elevation Summary
Building 231/207 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
Shallow Zone Monitoring Wells					
231GW09	06/04/07	13.41	24.28	10.87	MW
	02/26/07	13.17	24.28	11.11	MW
	12/04/06	13.35	24.28	10.93	MW
	08/14/06	13.47	24.28	10.81	MW
	05/22/06	12.80	24.28	11.48	MW
	03/06/06	12.60	24.28	11.68	MW
	11/28/05	13.11	24.28	11.17	MW
	08/29/05	12.36	24.28	11.92	MW
	05/23/05	11.15	24.28	13.13	MW
	03/14/05	11.50	24.28	12.78	MW
	12/13/04	12.18	24.28	12.10	MW
	08/09/04	12.75	24.28	11.53	MW
	05/24/04	12.63	24.28	11.65	MW
	03/08/04	12.22	24.28	12.06	MW
	12/01/03	13.15	24.28	11.13	MW
	08/11/03	13.38	24.28	10.90	MW
	06/02/03	13.22	24.28	11.06	MW
	03/10/03	12.25	24.28	12.03	MW
	12/02/02	12.43	24.28	11.85	MW
	08/26/02	12.26	24.28	12.02	MW
	05/28/02	12.20	24.28	12.08	MW
	03/04/02	11.97	24.28	12.31	MW
	11/26/01	12.31 [2]	24.28	11.97	MW
	08/27/01	12.65	24.28	11.63	MW
	05/08/01	12.06	24.28	12.22	MW
231GW10	06/04/07	3.46	11.37	7.91	MW
	02/26/07	3.25	11.37	8.12	MW
	12/04/06	3.45	11.37	7.92	MW
	08/14/06	3.87	11.37	7.50	MW
	05/22/06	3.28	11.37	8.09	MW
	03/06/06	2.96	11.37	8.41	MW
	11/28/05	3.24	11.37	8.13	MW
	08/29/05	3.51	11.37	7.86	MW
	05/23/05	2.83	11.37	8.54	MW
	03/14/05	3.05	11.37	8.32	MW
	12/13/04	3.36	11.37	8.01	MW
	08/09/04	3.95	11.37	7.42	MW
	05/24/04	3.62	11.37	7.75	MW
	03/08/04	2.88	11.37	8.49	MW
	12/01/03	3.48	11.37	7.89	MW
	08/11/03	3.53	11.37	7.84	MW
	06/02/03	3.77	11.37	7.60	MW
	03/10/03	2.74	11.37	8.63	MW
	12/02/02	3.41	11.37	7.96	MW
	08/26/02	3.30	11.37	8.07	MW
	05/28/02	3.31	11.37	8.06	MW
	03/04/02	2.81	11.37	8.56	MW
	11/26/01	3.50	11.37	7.87	MW
	08/27/01	3.80	11.37	7.57	MW
	05/08/01	3.44	11.37	7.93	MW

Table A-10-7
Groundwater Elevation Summary
Building 231/207 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
231GW11	06/04/07	2.76	11.11	8.35	MW
	02/26/07	2.23	11.11	8.88	MW
	12/04/06	2.53	11.11	8.58	MW
	08/14/06	2.84	11.11	8.27	MW
	05/22/06	3.01	11.11	8.10	MW
	03/06/06	2.35	11.11	8.76	MW
	11/28/05	2.63	11.11	8.48	MW
	08/29/05	2.79	11.11	8.32	MW
	05/23/05	2.94	11.11	8.17	MW
	03/14/05	2.37	11.11	8.74	MW
	12/13/04	2.45	11.11	8.66	MW
	08/09/04	2.96	11.11	8.15	MW
	05/24/04	2.95	11.11	8.16	MW
	03/08/04	2.95	11.11	8.16	MW
	12/01/03	3.59	11.11	7.52	MW
	08/11/03	3.78	11.11	7.33	MW
	06/02/03	4.13	11.11	6.98	MW
	03/10/03	4.01	11.11	7.10	MW
	12/02/02	3.64	11.11	7.47	MW
	08/26/02	2.23	11.11	8.88	MW
	05/28/02	3.24	11.11	7.87	MW
	03/04/02	2.05	11.11	9.06	MW
	11/26/01	2.25	11.11	8.86	MW
	08/27/01	2.68	11.11	8.43	MW
	05/08/01	2.46	11.11	8.65	MW
231GW16	06/04/07	5.45	10.80	5.35	MW
	02/26/07	5.62	10.80	5.18	MW
	12/04/06	5.63	10.80	5.17	MW
	08/14/06	5.70	10.80	5.10	MW
	05/22/06	5.68	10.80	5.12	MW
	03/06/06	5.53	10.80	5.27	MW
	11/28/05	5.58	10.80	5.22	MW
	08/29/05	5.52	10.80	5.28	MW
	05/23/05	5.43	10.80	5.37	MW
	03/14/05	5.36	10.80	5.44	MW
	12/13/04	5.50	10.80	5.30	MW
	08/09/04	5.57	10.80	5.23	MW
	05/24/04	5.63	10.80	5.17	MW
	03/08/04	5.52	10.80	5.28	MW
	12/01/03	5.53	10.80	5.27	MW
	08/11/03	5.51	10.80	5.29	MW
	06/02/03	5.63	10.80	5.17	MW
	03/10/03	5.24	10.80	5.56	MW
	12/02/02	5.51	10.80	5.29	MW
	08/26/02	5.51	10.80	5.29	MW
	05/28/02	5.51	10.80	5.29	MW
	03/04/02	5.59	10.80	5.21	MW
	11/26/01	5.54	10.80	5.26	MW
	08/27/01	5.63	10.80	5.17	MW
	05/08/01	5.54	10.80	5.26	MW

Table A-10-7
Groundwater Elevation Summary
Building 231/207 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
231GW19	06/04/07	4.46	12.20	7.74	MW
	02/26/07	3.81	12.20	8.39	MW
	12/04/06	4.28	12.20	7.92	MW
	08/14/06	4.67	12.20	7.53	MW
	05/22/06	3.92	12.20	8.28	MW
	03/06/06	2.93	12.20	9.27	MW
	11/28/05	4.46	12.20	7.74	MW
	08/29/05	4.32	12.20	7.88	MW
	05/23/05	3.37	12.20	8.83	MW
	03/14/05	3.28	12.20	8.92	MW
	12/13/04	4.00	12.20	8.20	MW
	08/09/04	4.75	12.20	7.45	MW
	05/24/04	4.39	12.20	7.81	MW
	03/08/04	3.64	12.20	8.56	MW
	12/01/03	4.72	12.20	7.48	MW
	08/11/03	4.71	12.20	7.49	MW
	06/02/03	4.28	12.20	7.92	MW
	03/10/03	3.59	12.20	8.61	MW
	12/02/02	4.47	12.20	7.73	MW
	08/26/02	4.49	12.20	7.71	MW
	05/28/02	4.14	12.20	8.06	MW
	03/04/02	3.71	12.20	8.49	MW
	11/26/01	4.28	12.20	7.92	MW
	08/27/01	4.56	12.20	7.64	MW
	05/08/01	4.11	12.20	8.09	MW
231GW21	06/04/07	5.60	13.50	7.90	MW
	02/26/07	5.36	13.50	8.14	MW
	12/04/06	5.68	13.50	7.82	MW
	08/14/06	5.69	13.50	7.81	MW
	05/22/06	5.28	13.50	8.22	MW
	03/06/06	5.20	13.50	8.30	MW
	11/28/05	5.62	13.50	7.88	MW
	08/29/05	5.41	13.50	8.09	MW
	05/23/05	4.75	13.50	8.75	MW
	03/14/05	4.75	13.50	8.75	MW
	12/13/04	5.33	13.50	8.17	MW
	08/09/04	5.63	13.50	7.87	MW
	05/24/04	5.29	13.50	8.21	MW
	03/08/04	4.91	13.50	8.59	MW
	12/01/03	5.86	13.50	7.64	MW
	08/11/03	5.67	13.50	7.83	MW
	06/02/03	5.35	13.50	8.15	MW
	03/10/03	5.13	13.50	8.37	MW
	12/02/02	5.58	13.50	7.92	MW
	08/26/02	5.40	13.50	8.10	MW
	05/28/02	5.33	13.50	8.17	MW
	03/04/02	5.19	13.50	8.31	MW
	11/26/01	5.48	13.50	8.02	MW
	08/27/01	5.39	13.50	8.11	MW
	05/08/01	5.23	13.50	8.27	MW

Table A-10-7
Groundwater Elevation Summary
Building 231/207 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
231GW22	06/04/07	6.77	15.88	9.11	MW
	02/26/07	6.74	15.88	9.14	MW
	12/04/06	6.92	15.88	8.96	MW
	08/14/06	6.80	15.88	9.08	MW
	05/22/06	6.31	15.88	9.57	MW
	03/06/06	6.44	15.88	9.44	MW
	11/28/05	6.89	15.88	8.99	MW
	08/29/05	6.53	15.88	9.35	MW
	05/23/05	5.51	15.88	10.37	MW
	03/14/05	6.03	15.88	9.85	MW
	12/13/04	6.82	15.88	9.06	MW
	08/09/04	6.85	15.88	9.03	MW
	05/24/04	6.54	15.88	9.34	MW
	03/08/04	6.31	15.88	9.57	MW
	12/01/03	7.23	15.88	8.65	MW
	08/11/03	6.88	15.88	9.00	MW
	06/02/03	6.47	15.88	9.41	MW
	03/10/03	6.22	15.88	9.66	MW
	12/02/02	6.86	15.88	9.02	MW
	08/26/02	6.60	15.88	9.28	MW
	05/28/02	6.40	15.88	9.48	MW
	03/04/02	6.19	15.88	9.69	MW
	11/26/01	6.80	15.88	9.08	MW
	08/27/01	6.67	15.88	9.21	MW
	05/08/01	6.27	15.88	9.61	MW
231GW23	06/04/07	3.40	11.84	8.44	MW
	02/26/07	3.23	11.84	8.61	MW
	12/04/06	3.23	11.84	8.61	MW
	08/14/06	3.53	11.84	8.31	MW
	05/22/06	2.72	11.84	9.12	MW
	03/06/06	2.87	11.84	8.97	MW
	11/28/05	3.03	11.84	8.81	MW
	08/29/05	3.01	11.84	8.83	MW
	05/23/05	2.25	11.84	9.59	MW
	03/14/05	1.70	11.84	10.14	MW
	12/13/04	3.00	11.84	8.84	MW
	08/09/04	3.58	11.84	8.26	MW
	05/24/04	3.40	11.84	8.44	MW
	03/08/04	3.06	11.84	8.78	MW
	12/01/03	3.44	11.84	8.40	MW
	08/11/03	3.58	11.84	8.26	MW
	06/02/03	3.46	11.84	8.38	MW
	03/10/03	3.14	11.84	8.70	MW
	12/02/02	3.24	11.84	8.60	MW
	08/26/02	3.04	11.84	8.80	MW
	05/28/02	3.05	11.84	8.79	MW
	03/04/02	2.81	11.84	9.03	MW
	11/26/01	2.85	11.84	8.99	MW
	08/27/01	3.35	11.84	8.49	MW
	05/08/01	3.42	11.84	8.42	MW

Table A-10-7
Groundwater Elevation Summary
Building 231/207 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
231GW24	06/04/07	4.47	11.63	7.16	MW
	02/26/07	3.98	11.63	7.65	MW
	12/04/06	4.45	11.63	7.18	MW
	08/14/06	4.67	11.63	6.96	MW
	05/22/06	4.13	11.63	7.50	MW
	03/06/06	3.35	11.63	8.28	MW
	11/28/05	4.47	11.63	7.16	MW
	08/29/05	4.47	11.63	7.16	MW
	05/23/05	3.80	11.63	7.83	MW
	03/14/05	3.73	11.63	7.90	MW
	12/13/04	4.11	11.63	7.52	MW
	08/09/04	4.70	11.63	6.93	MW
	05/24/04	4.48	11.63	7.15	MW
	03/08/04	3.96	11.63	7.67	MW
	12/01/03	4.59	11.63	7.04	MW
	08/11/03	4.63	11.63	7.00	MW
	06/02/03	4.37	11.63	7.26	MW
	03/10/03	3.97	11.63	7.66	MW
	12/02/02	4.52	11.63	7.11	MW
	08/26/02	4.50	11.63	7.13	MW
	05/28/02	4.28	11.63	7.35	MW
	03/04/02	4.04	11.63	7.59	MW
	11/26/01	4.34	11.63	7.29	MW
	08/27/01	4.63	11.63	7.00	MW
	05/08/01	4.29	11.63	7.34	MW
231GW25	06/04/07	4.27	12.45	8.18	MW
	02/26/07	4.10	12.45	8.35	MW
	12/04/06	4.28	12.45	8.17	MW
	08/14/06	4.56	12.45	7.89	MW
	05/22/06	4.14	12.45	8.31	MW
	03/06/06	3.49	12.45	8.96	MW
	11/28/05	4.13	12.45	8.32	MW
	08/29/05	4.11	12.45	8.34	MW
	05/23/05	3.38	12.45	9.07	MW
	03/14/05	3.48	12.45	8.97	MW
	12/13/04	3.75	12.45	8.70	MW
	08/09/04	4.47	12.45	7.98	MW
	05/24/04	4.21	12.45	8.24	MW
	03/08/04	3.70	12.45	8.75	MW
	12/01/03	3.98	12.45	8.47	MW
	08/11/03	4.44	12.45	8.01	MW
	06/02/03	4.56	12.45	7.89	MW
	03/10/03	3.67	12.45	8.78	MW
	12/02/02	3.83	12.45	8.62	MW
	08/26/02	4.01	12.45	8.44	MW
	05/28/02	3.98	12.45	8.47	MW
	03/04/02	3.87	12.45	8.58	MW
	11/26/01	3.65	12.45	8.80	MW
	08/27/01	4.43	12.45	8.02	MW
	05/08/01	4.09	12.45	8.36	MW

Table A-10-7
Groundwater Elevation Summary
Building 231/207 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
231GW30	06/04/07	5.10	12.68	7.58	MW
	02/26/07	5.60	12.68	7.08	MW
	12/04/06	5.75	12.68	6.93	MW
	08/14/06	5.73	12.68	6.95	MW
	05/22/06	5.83	12.68	6.85	MW
	03/06/06	5.10	12.68	7.58	MW
	11/28/05	5.53	12.68	7.15	MW
	08/29/05	5.38	12.68	7.30	MW
	05/23/05	4.97	12.68	7.71	MW
	03/14/05	5.35	12.68	7.33	MW
	12/13/04	5.33	12.68	7.35	MW
	08/09/04	5.60	12.68	7.08	MW
	05/24/04	6.00	12.68	6.68	MW
	03/08/04	5.55	12.68	7.13	MW
	12/01/03	5.88	12.68	6.80	MW
	08/11/03	5.35	12.68	7.33	MW
	06/02/03	6.08	12.68	6.60	MW
	03/10/03	5.06	12.68	7.62	MW
	12/02/02	5.87	12.68	6.81	MW
	08/26/02	5.30	12.68	7.38	MW
	05/28/02	5.61	12.68	7.07	MW
	03/04/02	5.70	12.68	6.98	MW
	11/26/01	5.37	12.68	7.31	MW
	08/27/01	6.04	12.68	6.64	MW
	05/08/01	5.82	12.68	6.86	MW
231PZ01	06/04/07	6.31	15.47	9.16	PZ
	02/26/07	6.16	15.47	9.31	PZ
	12/04/06	6.32	15.47	9.15	PZ
	08/04/06	6.38	15.47	9.09	PZ
	05/22/06	5.88	15.47	9.59	PZ
	03/06/06	5.88	15.47	9.59	PZ
	11/28/05	6.34	15.47	9.13	PZ
	08/29/05	5.97	15.47	9.50	PZ
	05/23/05	5.35	15.47	10.12	PZ
	03/14/05	5.48	15.47	9.99	PZ
	12/13/04	6.19	15.47	9.28	PZ
	08/09/04	6.37	15.47	9.10	PZ
	05/24/04	5.92	15.47	9.55	PZ
	03/08/04	5.70	15.47	9.77	PZ
	12/01/03	6.72	15.47	8.75	PZ
	08/11/03	6.42	15.47	9.05	PZ
	06/02/03	6.04	15.47	9.43	PZ
	03/10/03	5.61	15.47	9.86	PZ
	12/02/02	6.29	15.47	9.18	PZ
	08/26/02	6.10	15.47	9.37	PZ
	05/28/02	5.88	15.47	9.59	PZ
	03/04/02	5.59	15.47	9.88	PZ
	11/26/01	5.93	15.47	9.54	PZ
	08/27/01	6.44	15.47	9.03	PZ
	05/08/01	5.28	15.47	10.19	PZ

Table A-10-7
Groundwater Elevation Summary
Building 231/207 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
231PZ02	06/04/07	6.04	15.13	9.09	PZ
	02/26/07	5.62	15.13	9.51	PZ
	12/04/06	5.98	15.13	9.15	PZ
	08/14/06	6.12	15.13	9.01	PZ
	05/22/06	5.41	15.13	9.72	PZ
	03/06/06	5.40	15.13	9.73	PZ
	11/28/05	5.92	15.13	9.21	PZ
	08/29/05	5.60	15.13	9.53	PZ
	05/23/05	4.88	15.13	10.25	PZ
	03/14/05	4.90	15.13	10.23	PZ
	12/13/04	5.50	15.13	9.63	PZ
	08/09/04	5.93	15.13	9.20	PZ
	05/24/04	5.54	15.13	9.59	PZ
	03/08/04	5.12	15.13	10.01	PZ
	12/01/03	6.20	15.13	8.93	PZ
	08/11/03	6.14	15.13	8.99	PZ
	06/02/03	5.79	15.13	9.34	PZ
	03/10/03	5.08	15.13	10.05	PZ
	12/02/02	5.77	15.13	9.36	PZ
	08/26/02	5.63	15.13	9.50	PZ
	05/28/02	5.40	15.13	9.73	PZ
	03/04/02	5.13	15.13	10.00	PZ
	11/26/01	5.60	15.13	9.53	PZ
	08/27/01	6.07	15.13	9.06	PZ
	05/08/01	5.78	15.13	9.35	PZ
231PZ03	06/04/07	5.60	13.95	8.35	PZ
	02/26/07	5.10	13.95	8.85	PZ
	12/04/06	5.59	13.95	8.36	PZ
	08/14/06	5.75	13.95	8.20	PZ
	05/22/06	5.12	13.95	8.83	PZ
	03/06/06	4.92	13.95	9.03	PZ
	11/28/05	5.46	13.95	8.49	PZ
	08/29/05	5.38	13.95	8.57	PZ
	05/23/05	4.61	13.95	9.34	PZ
	03/14/05	4.55	13.95	9.40	PZ
	12/13/04	5.23	13.95	8.72	PZ
	08/09/04	5.67	13.95	8.28	PZ
	05/24/04	5.30	13.95	8.65	PZ
	03/08/04	4.58	13.95	9.37	PZ
	12/01/03	5.56	13.95	8.39	PZ
	08/11/03	5.67	13.95	8.28	PZ
	06/02/03	5.38	13.95	8.57	PZ
	03/10/03	4.86	13.95	9.09	PZ
	12/02/02	5.37	13.95	8.58	PZ
	08/26/02	5.27	13.95	8.68	PZ
	05/28/02	5.20	13.95	8.75	PZ
	03/04/02	4.90	13.95	9.05	PZ
	11/26/01	5.35	13.95	8.60	PZ
	08/27/01	5.43	13.95	8.52	PZ
	05/08/01	5.00	13.95	8.95	PZ

Table A-10-7
Groundwater Elevation Summary
Building 231/207 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
231PZ04	06/04/07	5.20	13.60	8.40	PZ
	02/26/07	4.75	13.60	8.85	PZ
	12/06/06	5.18	13.60	8.42	PZ
	08/14/06	5.42	13.60	8.18	PZ
	05/22/06	4.78	13.60	8.82	PZ
	03/06/06	4.57	13.60	9.03	PZ
	11/28/05	5.22	13.60	8.38	PZ
	08/29/05	5.04	13.60	8.56	PZ
	05/23/05	4.28	13.60	9.32	PZ
	03/14/05	4.19	13.60	9.41	PZ
	12/13/04	5.06	13.60	8.54	PZ
	08/09/04	5.32	13.60	8.28	PZ
	05/24/04	4.97	13.60	8.63	PZ
	03/08/04	4.41	13.60	9.19	PZ
	12/01/03	5.33	13.60	8.27	PZ
	08/11/03	5.35	13.60	8.25	PZ
	06/02/03	5.05	13.60	8.55	PZ
	03/10/03	4.67	13.60	8.93	PZ
	12/02/02	5.14	13.60	8.46	PZ
	08/26/02	5.04	13.60	8.56	PZ
	05/28/02	4.85	13.60	8.75	PZ
	03/04/02	4.56	13.60	9.04	PZ
	11/26/01	5.05	13.60	8.55	PZ
	08/27/01	5.57	13.60	8.03	PZ
	05/08/01	4.75	13.60	8.85	PZ
Intermediate Zone Monitoring Wells					
207GW03	06/04/07	4.5	9.98	5.48	MW
	02/26/07	3.91	9.98	6.07	MW
	12/04/06	4.21	9.98	5.77	MW
	08/14/06	4.31	9.98	5.67	MW
	05/22/06	3.48	9.98	6.50	MW
	03/06/06	3.45	9.98	6.53	MW
	11/28/05	3.62	9.98	6.36	MW
	08/29/05	4.28	9.98	5.70	MW
	05/23/05	2.88	9.98	7.10	MW
	03/14/05	3.37	9.98	6.61	MW
	12/13/04	3.38	9.98	6.60	MW
	08/09/04	4.95	9.98	5.03	MW
	05/24/04	3.93	9.98	6.05	MW
	03/08/04	5.43	9.98	4.55	MW
	12/01/03	4.66	9.98	5.32	MW
	08/11/03	4.19	9.98	5.79	MW
	06/02/03	5.20	9.98	4.78	MW
	03/10/03	2.93	9.98	7.05	MW
	12/02/02	3.82	9.98	6.16	MW
	08/26/02	4.62	9.98	5.36	MW
	05/28/02	3.45	9.98	6.53	MW
	03/04/02	4.58	9.98	5.40	MW
	11/26/01	4.07	9.98	5.91	MW
	08/27/01	4.61	9.98	5.37	MW
	05/08/01	4.43	9.98	5.55	MW

Table A-10-7
Groundwater Elevation Summary
Building 231/207 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
231GW06	06/04/07	5.18	13.86	8.68	MW
	02/26/07	4.87	13.86	8.99	MW
	12/04/06	4.88	13.86	8.98	MW
	08/14/06	5.14	13.86	8.72	MW
	05/22/06	4.54	13.86	9.32	MW
	03/06/06	4.43	13.86	9.43	MW
	11/28/05	4.78	13.86	9.08	MW
	08/29/05	4.53	13.86	9.33	MW
	05/23/05	3.66	13.86	10.20	MW
	03/14/05	3.90	13.86	9.96	MW
	12/13/04	4.22	13.86	9.64	MW
	08/09/04	4.85	13.86	9.01	MW
	05/24/04	4.58	13.86	9.28	MW
	03/08/04	4.13	13.86	9.73	MW
	12/01/03	4.89	13.86	8.97	MW
	08/11/03	5.12	13.86	8.74	MW
	06/02/03	5.02	13.86	8.84	MW
	03/10/03	4.00	13.86	9.86	MW
	12/02/02	4.45	13.86	9.41	MW
	08/26/02	4.43	13.86	9.43	MW
	05/28/02	4.40	13.86	9.46	MW
	03/04/02	2.13	13.86	11.73	MW
	11/26/01	4.30	13.86	9.56	MW
	08/27/01	4.63	13.86	9.23	MW
	05/08/01	4.30	13.86	9.56	MW
231GW15	06/04/07	4.27	11.00	6.73	MW
	02/26/07	3.72	11.00	7.28	MW
	12/04/06	3.92	11.00	7.08	MW
	08/14/06	4.17	11.00	6.83	MW
	05/22/06	3.37	11.00	7.63	MW
	03/06/06	3.38	11.00	7.62	MW
	11/28/05	3.50	11.00	7.50	MW
	08/29/05	3.99	11.00	7.01	MW
	05/23/05	2.77	11.00	8.23	MW
	03/14/05	3.16	11.00	7.84	MW
	12/13/04	3.30	11.00	7.70	MW
	08/09/04	4.42	11.00	6.58	MW
	05/24/04	3.71	11.00	7.29	MW
	03/08/04	3.74	11.00	7.26	MW
	12/01/03	4.27	11.00	6.73	MW
	08/11/03	4.00	11.00	7.00	MW
	06/02/03	4.43	11.00	6.57	MW
	03/10/03	2.87	11.00	8.13	MW
	12/02/02	3.51	11.00	7.49	MW
	08/26/02	3.90	11.00	7.10	MW
	05/28/02	3.99	11.00	7.01	MW
	03/04/02	4.08	11.00	6.92	MW
	11/26/01	3.82	11.00	7.18	MW
	08/27/01	4.15	11.00	6.85	MW
	05/08/01	3.86	11.00	7.14	MW

Table A-10-7
Groundwater Elevation Summary
Building 231/207 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
231GW18	06/04/07	2.76	12.30	9.54	MW
	02/26/07	2.65	12.30	9.65	MW
	12/04/06	2.63	12.30	9.67	MW
	08/14/06	2.73	12.30	9.57	MW
	05/22/06	1.70	12.30	10.60	MW
	03/06/06	2.09	12.30	10.21	MW
	11/28/05	2.43	12.30	9.87	MW
	08/29/05	2.28	12.30	10.02	MW
	05/23/05	1.57	12.30	10.73	MW
	03/14/05	1.71	12.30	10.59	MW
	12/13/04	2.27	12.30	10.03	MW
	08/09/04	2.81	12.30	9.49	MW
	05/24/04	2.42	12.30	9.88	MW
	03/08/04	2.72	12.30	9.58	MW
	12/01/03	3.00	12.30	9.30	MW
	08/11/03	2.97	12.30	9.33	MW
	06/02/03	2.67	12.30	9.63	MW
	03/10/03	2.64	12.30	9.66	MW
	12/02/02	2.37	12.30	9.93	MW
	08/26/02	2.35	12.30	9.95	MW
	05/28/02	2.24	12.30	10.06	MW
	03/04/02	1.98	12.30	10.32	MW
	11/26/01	2.50	12.30	9.80	MW
	08/27/01	2.56	12.30	9.74	MW
	05/08/01	2.21	12.30	10.09	MW
231GW26	06/04/07	7.31	16.13	8.82	MW
	02/26/07	7.00	16.13	9.13	MW
	12/04/06	7.03	16.13	9.10	MW
	08/14/06	7.33	16.13	8.80	MW
	05/22/06	6.73	16.13	9.40	MW
	03/06/06	6.51	16.13	9.62	MW
	11/28/05	6.98	16.13	9.15	MW
	08/29/05	6.72	16.13	9.41	MW
	05/23/05	5.87	16.13	10.26	MW
	03/14/05	5.93	16.13	10.20	MW
	12/15/04	6.41	16.13	9.72	MW
	08/09/04	7.01	16.13	9.12	MW
	05/24/04	6.74	16.13	9.39	MW
	03/08/04	6.37	16.13	9.76	MW
	12/01/03	7.12	16.13	9.01	MW
	08/11/03	7.29	16.13	8.84	MW
	06/02/03	7.22	16.13	8.91	MW
	03/10/03	6.33	16.13	9.80	MW
	12/02/02	6.61	16.13	9.52	MW
	08/26/02	6.60	16.13	9.53	MW
	05/28/02	6.57	16.13	9.56	MW
	03/04/02	6.31	16.13	9.82	MW
	11/26/01	6.54	16.13	9.59	MW
	08/27/01	6.78	16.13	9.35	MW
	05/08/01	6.41	16.13	9.72	MW

Table A-10-7
Groundwater Elevation Summary
Building 231/207 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
231GW27	06/04/07	10.79	20.32	9.53	MW
	02/26/07	10.42	20.32	9.90	MW
	12/04/06	10.54	20.32	9.78	MW
	08/14/06	10.75	20.32	9.57	MW
	05/22/06	10.12	20.32	10.20	MW
	03/06/06	9.97	20.32	10.35	MW
	11/28/05	10.47	20.32	9.85	MW
	08/29/05	9.95	20.32	10.37	MW
	05/23/05	9.38	20.32	10.94	MW
	03/14/05	9.50	20.32	10.82	MW
	12/13/04	10.02	20.32	10.30	MW
	08/09/04	10.50	20.32	9.82	MW
	05/24/04	10.25	20.32	10.07	MW
	03/08/04	10.15	20.32	10.17	MW
	12/01/03	10.77	20.32	9.55	MW
	08/11/03	10.84	20.32	9.48	MW
	06/02/03	10.68	20.32	9.64	MW
	03/10/03	10.13	20.32	10.19	MW
	12/02/02	10.16	20.32	10.16	MW
	08/26/02	10.11	20.32	10.21	MW
	05/28/02	10.04	20.32	10.28	MW
	03/04/02	9.76	20.32	10.56	MW
	11/26/01	10.05	20.32	10.27	MW
	08/27/01	10.29	20.32	10.03	MW
	05/08/01	9.96	20.32	10.36	MW
231GW28	06/04/07	4.08	12.03	7.95	MW
	02/26/07	3.65	12.03	8.38	MW
	12/04/06	4.18	12.03	7.85	MW
	08/14/06	3.74	12.03	8.29	MW
	05/22/06	3.58	12.03	8.45	MW
	03/06/06	3.28	12.03	8.75	MW
	11/28/05	3.46	12.03	8.57	MW
	08/29/05	3.32	12.03	8.71	MW
	05/23/05	2.96	12.03	9.07	MW
	03/14/05	2.65	12.03	9.38	MW
	12/13/04	2.80	12.03	9.23	MW
	08/09/04	3.17	12.03	8.86	MW
	05/24/04	3.27	12.03	8.76	MW
	03/08/04	3.36	12.03	8.67	MW
	12/01/03	3.74	12.03	8.29	MW
	08/11/03	3.44	12.03	8.59	MW
	06/02/03	3.80	12.03	8.23	MW
	03/10/03	2.48	12.03	9.55	MW
	12/02/02	2.98	12.03	9.05	MW
	08/26/02	3.02	12.03	9.01	MW
	05/28/02	3.69	12.03	8.34	MW
	03/04/02	2.53	12.03	9.50	MW
	11/26/01	3.37	12.03	8.66	MW
	08/27/01	3.53	12.03	8.50	MW
	05/08/01	3.20	12.03	8.83	MW

Table A-10-7
Groundwater Elevation Summary
Building 231/207 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
231GW29	06/04/07	2.68	11.11	8.43	MW
	02/26/07	2.66	11.11	8.45	MW
	12/04/06	2.56	11.11	8.55	MW
	08/14/06	2.81	11.11	8.30	MW
	05/22/06	2.41	11.11	8.70	MW
	03/06/06	2.24	11.11	8.87	MW
	11/28/05	2.30	11.11	8.81	MW
	08/29/05	2.18	11.11	8.93	MW
	05/23/05	1.53	11.11	9.58	MW
	03/14/05	1.49	11.11	9.62	MW
	12/13/04	2.05	11.11	9.06	MW
	08/09/04	2.18	11.11	8.93	MW
	05/24/04	2.03	11.11	9.08	MW
	03/08/04	2.36	11.11	8.75	MW
	12/01/03	2.51	11.11	8.60	MW
	08/11/03	2.6	11.11	8.51	MW
	06/02/03	2.56	11.11	8.55	MW
	03/10/03	1.50	11.11	9.61	MW
	12/02/02	2.02	11.11	9.09	MW
	08/26/02	1.95	11.11	9.16	MW
	05/28/02	1.94	11.11	9.17	MW
	03/04/02	1.84	11.11	9.27	MW
	11/26/01	1.81	11.11	9.30	MW
	08/27/01	2.13	11.11	8.98	MW
	05/08/01	2.31	11.11	8.80	MW
Deep Zone Monitoring Wells					
OW-1	06/04/07	2.40	13.28	10.88	PZ
	02/26/07	2.21	13.28	11.07	PZ
	12/04/06	2.23	13.28	11.05	PZ
	08/14/06	2.25	13.28	11.03	PZ
	05/22/06	1.84	NS	--	PZ
	03/06/06	1.97	NS	--	PZ
	11/28/05	2.15	NS	--	PZ
	08/29/05	1.65	NS	--	PZ
	05/23/05	1.21	NS	--	PZ
	03/14/05	1.23	NS	--	PZ
	12/13/04	2.00	NS	--	PZ
	08/09/04	2.31	NS	--	PZ
	05/24/01	2.14	NS	--	PZ
	03/08/04	1.78	NS	--	PZ
	12/01/03	2.82	NS	--	PZ
	08/11/03	3.09	NS	--	PZ
	06/02/03	2.98	NS	--	PZ
	03/10/03	NM	NS	--	PZ
	12/02/02	1.91	NS	--	PZ
231GW13	06/04/07	2.94	13.70	10.76	MW
	02/26/07	2.62	13.70	11.08	MW
	12/04/06	2.80	13.70	10.90	MW
	08/14/06	2.81	13.70	10.89	MW
	05/22/06	2.17	13.70	11.53	MW
	03/06/06	2.15	13.70	11.55	MW
	11/28/05	2.70	13.70	11.00	MW
	08/29/05	2.27	13.70	11.43	MW
	05/23/05	1.67	13.70	12.03	MW

Table A-10-7
Groundwater Elevation Summary
Building 231/207 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
231GW13	03/14/05	1.66	13.70	12.04	MW
	12/13/04	2.44	13.70	11.26	MW
	08/09/04	3.04	13.70	10.66	MW
	05/24/04	2.74	13.70	10.96	MW
	03/08/04	2.28	13.70	11.42	MW
	12/01/03	3.35	13.70	10.35	MW
	08/11/03	3.61	13.70	10.09	MW
	06/02/03	3.46	13.70	10.24	MW
	03/10/03	2.39	13.70	11.31	MW
	12/02/02	2.53	13.70	11.17	MW
	08/26/02	2.45	13.70	11.25	MW
	05/28/02	2.39	13.70	11.31	MW
	03/04/02	2.15	13.70	11.55	MW
	11/26/01	2.50	13.70	11.20	MW
	08/27/01	2.74	13.70	10.96	MW
	05/08/01	2.31	13.70	11.39	MW
231GW17	06/04/07	1.60	12.50	10.90	MW
	02/26/07	1.42	12.50	11.08	MW
	12/04/06	1.50	12.50	11.00	MW
	08/14/06	1.48	12.50	11.02	MW
	05/22/06	0.82	12.50	11.68	MW
	03/06/06	0.98	12.50	11.52	MW
	11/28/05	1.33	12.50	11.17	MW
	08/29/05	0.73	12.50	11.77	MW
	05/23/05	0.24	12.50	12.26	MW
	03/14/05	0.37	12.50	12.13	MW
	12/13/04	1.18	12.50	11.32	MW
	08/09/04	1.68	12.50	10.82	MW
	05/24/04	1.38	12.50	11.12	MW
	03/08/04	1.42	12.50	11.08	MW
	12/01/03	1.98	12.50	10.52	MW
	08/11/03	1.98	12.50	10.52	MW
	06/02/03	1.60	12.50	10.90	MW
	03/10/03	0.95	12.50	11.55	MW
	12/06/02	1.31	12.50	11.19 [3]	MW
	08/26/02	1.16	12.50	11.34	MW
	05/28/02	1.06	12.50	11.44	MW
	03/04/02	0.79	12.50	11.71	MW
	11/26/01	1.17	12.50	11.33	MW
	08/27/01	1.39	12.50	11.11	MW
	05/08/01	1.01	12.50	11.49	MW
231GW20	06/04/07	2.50	13.30	10.80	MW
	02/26/07	2.17	13.30	11.13	MW
	12/04/06	2.31	13.30	10.99	MW
	08/14/06	2.28	13.30	11.02	MW
	05/22/06	1.74	13.30	11.56	MW
	03/06/06	1.65	13.30	11.65	MW
	11/28/05	2.23	13.30	11.07	MW
	08/29/05	1.74	13.30	11.56	MW
	05/23/05	1.07	13.30	12.23	MW
	03/14/05	1.15	13.30	12.15	MW
	12/13/04	1.85	13.30	11.45	MW
	08/09/04	2.41	13.30	10.89	MW
	05/24/04	2.23	13.30	11.07	MW
	03/08/04	1.77	13.30	11.53	MW

Table A-10-7
Groundwater Elevation Summary
Building 231/207 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
231GW20	12/01/03	2.82	13.30	10.48	MW
	08/11/03	3.18	13.30	10.12	MW
	06/02/03	3.05	13.30	10.25	MW
	03/10/03	2.02	13.30	11.28	MW
	12/02/02	2.03	13.30	11.27	MW
	08/26/02	1.90	13.30	11.40	MW
	05/28/02	1.64	13.30	11.66	MW
	03/04/02	1.64	13.30	11.66	MW
	11/26/01	1.95	13.30	11.35	MW
	08/27/01	2.14	13.30	11.16	MW
	05/08/01	1.79	13.30	11.51	MW

Notes
1 - All depth to water measurements are an average of three measurements recorded in the field.
2 - The depth to water was improperly recorded as 2.31 feet rather than 12.31 feet on 26 November 2001.
3 - This depth to water was measured on 6 December 2002. The depth to water measured on 2 December 2002 (2.27 feet) was determined to be in error.
MW- Monitoring well
PZ - Piezometer
NS - Not Surveyed
feet PLLW - feet above Presidio Lower Low Water vertical datum

Table A-10-8
Summary of Vertical Gradients at Well Clusters
Building 231/207 Area
Presidio of San Francisco, California

Well Cluster (WC)	Well Name	Date	Groundwater Zone	Groundwater Elevation (feet PLLW)	Screen Midpoint Elevation (feet PLLW)	Shallow/Intermediate Vertical Gradient (feet/foot) [1]	Intermediate/Deep Vertical Gradient (feet/foot) [1]	Shallow/Deep Vertical Gradient (feet/foot) [1]
WC-1	231GW19	06/04/07	Shallow	7.74	5.90	-0.18	-0.10	-0.14
	231GW18	06/04/07	Intermediate	9.54	-3.85			
	231GW17	06/04/07	Deep	10.90	-17.20			
	231GW19	02/26/07	Shallow	8.32	5.90	-0.14	-0.11	-0.12
	231GW18	02/26/07	Intermediate	9.65	-3.85			
	231GW17	02/26/07	Deep	11.08	-17.20			
	231GW19	12/04/06	Shallow	7.92	5.90	-0.18	-0.10	-0.13
	231GW18	12/04/06	Intermediate	9.67	-3.85			
	231GW17	12/04/06	Deep	11.00	-17.20			
	231GW19	08/14/06	Shallow	7.53	5.90	-0.21	-0.11	-0.15
	231GW18	08/14/06	Intermediate	9.57	-3.85			
	231GW17	08/14/06	Deep	11.02	-17.20			
	231GW19	05/22/06	Shallow	8.28	5.90	-0.24	-0.08	-0.15
	231GW18	05/22/06	Intermediate	10.6	-3.85			
	231GW17	05/22/06	Deep	11.68	-17.20			
	231GW19	03/06/06	Shallow	9.27	5.90	-0.10	-0.10	-0.10
	231GW18	03/06/06	Intermediate	10.21	-3.85			
	231GW17	03/06/06	Deep	11.52	-17.20			
	231GW19	11/28/05	Shallow	7.74	5.90	-0.22	-0.10	-0.15
	231GW18	11/28/05	Intermediate	9.87	-3.85			
	231GW17	11/28/05	Deep	11.17	-17.20			
	231GW19	08/29/05	Shallow	7.88	5.90	-0.22	-0.13	-0.17
	231GW18	08/29/05	Intermediate	10.02	-3.85			
	231GW17	08/29/05	Deep	11.77	-17.20			
	231GW19	05/23/05	Shallow	8.83	5.90	-0.19	-0.11	-0.15
	231GW18	05/23/05	Intermediate	10.73	-3.85			
	231GW17	05/23/05	Deep	12.26	-17.20			

Table A-10-8
Summary of Vertical Gradients at Well Clusters
Building 231/207 Area
Presidio of San Francisco, California

Well Cluster (WC)	Well Name	Date	Groundwater Zone	Groundwater Elevation (feet PLLW)	Screen Midpoint Elevation (feet PLLW)	Shallow/Intermediate Vertical Gradient (feet/foot) [1]	Intermediate/Deep Vertical Gradient (feet/foot) [1]	Shallow/Deep Vertical Gradient (feet/foot) [1]
WC-1	231GW19	03/14/05	Shallow	8.92	5.90	-0.17	-0.12	-0.14
	231GW18	03/14/05	Intermediate	10.59	-3.85			
	231GW17	03/14/05	Deep	12.13	-17.20			
	231GW19	12/13/04	Shallow	8.2	5.90	-0.19	-0.10	-0.14
	231GW18	12/13/04	Intermediate	10.03	-3.85			
	231GW17	12/13/04	Deep	11.32	-17.20			
	231GW19	08/09/04	Shallow	7.45	5.90	-0.21	-0.10	-0.15
	231GW18	08/09/04	Intermediate	9.49	-3.85			
	231GW17	08/09/04	Deep	10.82	-17.20			
	231GW19	05/24/04	Shallow	7.81	5.90	-0.21	-0.09	-0.14
	231GW18	05/24/04	Intermediate	9.88	-3.85			
	231GW17	05/24/04	Deep	11.12	-17.20			
	231GW19	03/08/04	Shallow	8.56	5.90	-0.10	-0.11	-0.11
	231GW18	03/08/04	Intermediate	9.58	-3.85			
	231GW17	03/08/04	Deep	11.08	-17.20			
	231GW19	12/01/03	Shallow	7.48	5.90	-0.19	-0.09	-0.13
	231GW18	12/01/03	Intermediate	9.30	-3.85			
	231GW17	12/01/03	Deep	10.52	-17.20			
	231GW19	08/11/03	Shallow	7.49	5.90	-0.19	-0.09	-0.13
	231GW18	08/11/03	Intermediate	9.33	-3.85			
	231GW17	08/11/03	Deep	10.52	-17.20			
	231GW19	06/02/03	Shallow	7.92	5.90	-0.18	-0.10	-0.13
	231GW18	06/02/03	Intermediate	9.63	-3.85			
	231GW17	06/02/03	Deep	10.9	-17.20			
	231GW19	03/10/03	Shallow	8.61	5.90	-0.11	-0.14	-0.13
	231GW18	03/10/03	Intermediate	9.66	-3.85			
	231GW17	03/10/03	Deep	11.55	-17.20			

Table A-10-8
Summary of Vertical Gradients at Well Clusters
Building 231/207 Area
Presidio of San Francisco, California

Well Cluster (WC)	Well Name	Date	Groundwater Zone	Groundwater Elevation (feet PLLW)	Screen Midpoint Elevation (feet PLLW)	Shallow/Intermediate Vertical Gradient (feet/foot) [1]	Intermediate/Deep Vertical Gradient (feet/foot) [1]	Shallow/Deep Vertical Gradient (feet/foot) [1]
WC-2	231GW21	06/04/07	Shallow	7.90	7.30	-0.07	-0.12	-0.10
	231GW06	06/04/07	Intermediate	8.68	-3.82			
	231GW20	06/04/07	Deep	10.8	-21.20			
	231GW21	02/26/07	Shallow	8.14	7.30	-0.08	-0.12	-0.10
	231GW06	02/26/07	Intermediate	8.99	-3.82			
	231GW20	02/26/07	Deep	11.13	-21.20			
	231GW21	12/04/06	Shallow	7.82	7.30	-0.10	-0.12	-0.11
	231GW06	12/04/06	Intermediate	8.98	-3.82			
	231GW20	12/04/06	Deep	10.99	-21.20			
	231GW21	08/14/06	Shallow	7.81	7.30	-0.08	-0.13	-0.11
	231GW06	08/14/06	Intermediate	8.72	-3.82			
	231GW20	08/14/06	Deep	11.02	-21.20			
	231GW21	05/22/06	Shallow	8.22	7.30	-0.10	-0.13	-0.12
	231GW06	05/22/06	Intermediate	9.32	-3.82			
	231GW20	05/22/06	Deep	11.56	-21.20			
	231GW21	03/06/06	Shallow	8.30	7.30	-0.10	-0.13	-0.12
	231GW06	03/06/06	Intermediate	9.43	-3.82			
	231GW20	03/06/06	Deep	11.65	-21.20			
	231GW21	11/28/05	Shallow	7.88	7.30	-0.11	-0.11	-0.11
	231GW06	11/28/05	Intermediate	9.08	-3.82			
	231GW20	11/28/05	Deep	11.07	-21.20			
	231GW21	08/29/05	Shallow	8.09	7.30	-0.11	-0.13	-0.12
	231GW06	08/29/05	Intermediate	9.33	-3.82			
	231GW20	08/29/05	Deep	11.56	-21.20			
	231GW21	05/23/05	Shallow	8.75	7.30	-0.13	-0.12	-0.12
	231GW06	05/23/05	Intermediate	10.20	-3.82			
	231GW20	05/23/05	Deep	12.23	-21.20			

Table A-10-8
Summary of Vertical Gradients at Well Clusters
Building 231/207 Area
Presidio of San Francisco, California

Well Cluster (WC)	Well Name	Date	Groundwater Zone	Groundwater Elevation (feet PLLW)	Screen Midpoint Elevation (feet PLLW)	Shallow/Intermediate Vertical Gradient (feet/foot) [1]	Intermediate/Deep Vertical Gradient (feet/foot) [1]	Shallow/Deep Vertical Gradient (feet/foot) [1]
W-2	231GW21	03/14/05	Shallow	8.75	7.30	-0.11	-0.13	-0.12
	231GW06	03/14/05	Intermediate	9.96	-3.82			
	231GW20	03/14/05	Deep	12.15	-21.20			
	231GW21	12/13/04	Shallow	8.17	7.30	-0.13	-0.10	-0.12
	231GW06	12/13/04	Intermediate	9.64	-3.82			
	231GW20	12/13/04	Deep	11.45	-21.20			
	231GW21	08/09/04	Shallow	7.87	7.30	-0.10	-0.11	-0.11
	231GW06	08/09/04	Intermediate	9.01	-3.82			
	231GW20	08/09/04	Deep	10.89	-21.20			
	231GW21	05/24/04	Shallow	8.21	7.30	-0.10	-0.10	-0.10
	231GW06	05/24/04	Intermediate	9.28	-3.82			
	231GW20	05/24/04	Deep	11.07	-21.20			
	231GW21	03/08/04	Shallow	8.59	7.30	-0.10	-0.10	-0.10
	231GW06	03/08/04	Intermediate	9.73	-3.82			
	231GW20	03/08/04	Deep	11.53	-21.20			
	231GW21	12/01/03	Shallow	7.64	7.30	-0.12	-0.09	-0.10
	231GW06	12/01/03	Intermediate	8.97	-3.82			
	231GW20	12/01/03	Deep	10.48	-21.20			
	231GW21	08/11/03	Shallow	7.83	7.30	-0.08	-0.08	-0.08
	231GW06	08/11/03	Intermediate	8.74	-3.82			
	231GW20	08/11/03	Deep	10.12	-21.20			
	231GW21	06/02/03	Shallow	8.15	7.30	-0.06	-0.08	-0.07
	231GW06	06/02/03	Intermediate	8.84	-3.82			
	231GW20	06/02/03	Deep	10.25	-21.20			
	231GW21	03/10/03	Shallow	8.37	7.30	-0.13	-0.08	-0.10
	231GW06	03/10/03	Intermediate	9.86	-3.82			
	231GW20	03/10/03	Deep	11.28	-21.20			

Table A-10-8
Summary of Vertical Gradients at Well Clusters
Building 231/207 Area
Presidio of San Francisco, California

Well Cluster (WC)	Well Name	Date	Groundwater Zone	Groundwater Elevation (feet PLLW)	Screen Midpoint Elevation (feet PLLW)	Shallow/Intermediate Vertical Gradient (feet/foot) [1]	Intermediate/Deep Vertical Gradient (feet/foot) [1]	Shallow/Deep Vertical Gradient (feet/foot) [1]
WC-3	231GW16	06/04/07	Shallow	5.35	5.00	-0.13	-0.25	-0.21
	231GW15	06/04/07	Intermediate	6.73	-5.50			
	231GW13	06/04/07	Deep	12.04	-27.1			
	231GW16	02/26/07	Shallow	5.18	5.00	-0.20	-0.18	-0.18
	231GW15	02/26/07	Intermediate	7.28	-5.50			
	231GW13	02/26/07	Deep	11.08	-27.1			
	231GW16	12/04/06	Shallow	5.17	5.00	-0.18	-0.18	-0.18
	231GW15	12/04/06	Intermediate	7.08	-5.50			
	231GW13	12/04/06	Deep	10.90	-27.1			
	231GW16	08/14/06	Shallow	5.10	5.00	-0.16	-0.19	-0.18
	231GW15	08/14/06	Intermediate	6.83	-5.50			
	231GW13	08/14/06	Deep	10.89	-27.1			
	231GW16	05/22/06	Shallow	5.12	5.00	-0.24	-0.18	-0.20
	231GW15	05/22/06	Intermediate	7.63	-5.50			
	231GW13	05/22/06	Deep	11.53	-27.1			
	231GW16	03/06/06	Shallow	5.27	5.00	-0.22	-0.18	-0.20
	231GW15	03/06/06	Intermediate	7.62	-5.50			
	231GW13	03/06/06	Deep	11.55	-27.1			
	231GW16	11/28/05	Shallow	5.22	5.00	-0.22	-0.16	-0.18
	231GW15	11/28/05	Intermediate	7.50	-5.50			
	231GW13	11/28/05	Deep	11.00	-27.1			
	231GW16	08/29/05	Shallow	5.28	5.00	-0.16	-0.20	-0.19
	231GW15	08/29/05	Intermediate	7.01	-5.50			
	231GW13	08/29/05	Deep	11.43	-27.1			
	231GW16	05/23/05	Shallow	5.37	5.00	-0.27	-0.18	-0.21
	231GW15	05/23/05	Intermediate	8.23	-5.50			
	231GW13	05/23/05	Deep	12.03	-27.1			

Table A-10-8
Summary of Vertical Gradients at Well Clusters
Building 231/207 Area
Presidio of San Francisco, California

Well Cluster (WC)	Well Name	Date	Groundwater Zone	Groundwater Elevation (feet PLLW)	Screen Midpoint Elevation (feet PLLW)	Shallow/Intermediate Vertical Gradient (feet/foot) [1]	Intermediate/Deep Vertical Gradient (feet/foot) [1]	Shallow/Deep Vertical Gradient (feet/foot) [1]
W-3	231GW16	03/14/05	Shallow	5.44	5.00	-0.23	-0.19	-0.21
	231GW15	03/14/05	Intermediate	7.84	-5.50			
	231GW13	03/14/05	Deep	12.04	-27.1			
	231GW16	12/13/04	Shallow	5.3	5.00	-0.23	-0.16	-0.19
	231GW15	12/13/04	Intermediate	7.70	-5.50			
	231GW13	12/13/04	Deep	11.26	-27.1			
	231GW16	08/09/04	Shallow	5.23	5.00	-0.13	-0.19	-0.17
	231GW15	08/09/04	Intermediate	6.58	-5.50			
	231GW13	08/09/04	Deep	10.66	-27.1			
	231GW16	05/24/04	Shallow	5.17	5.00	-0.20	-0.17	-0.18
	231GW15	05/24/04	Intermediate	7.29	-5.50			
	231GW13	05/24/04	Deep	10.96	-27.1			
	231GW16	03/08/04	Shallow	5.28	5.00	-0.19	-0.19	-0.19
	231GW15	03/08/04	Intermediate	7.26	-5.50			
	231GW13	03/08/04	Deep	11.42	-27.1			
	231GW16	12/01/03	Shallow	5.27	5.00	-0.14	-0.17	-0.16
	231GW15	12/01/03	Intermediate	6.73	-5.50			
	231GW13	12/01/03	Deep	10.35	-27.1			
	231GW16	08/11/03	Shallow	5.29	5.00	-0.16	-0.14	-0.15
	231GW15	08/11/03	Intermediate	7.00	-5.50			
	231GW13	08/11/03	Deep	10.09	-27.1			
	231GW16	06/02/03	Shallow	5.17	5.00	-0.13	-0.17	-0.16
	231GW15	06/02/03	Intermediate	6.57	-5.50			
	231GW13	06/02/03	Deep	10.24	-27.1			
	231GW16	03/10/03	Shallow	5.56	5.00	-0.24	-0.15	-0.18
	231GW15	03/10/03	Intermediate	8.13	-5.50			
	231GW13	03/10/03	Deep	11.31	-27.10			

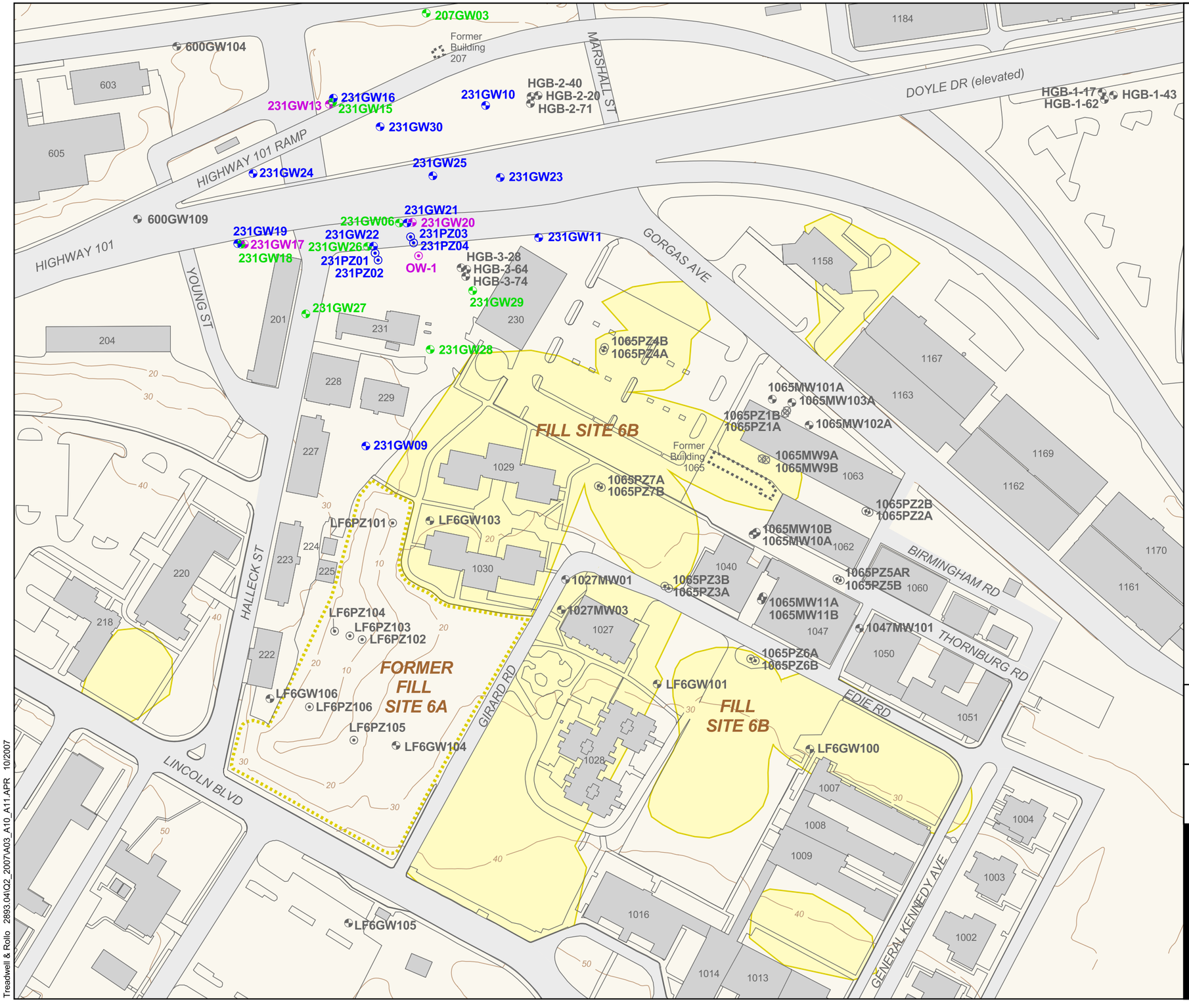
Table A-10-8
Summary of Vertical Gradients at Well Clusters
Building 231/207 Area
Presidio of San Francisco, California

Well Cluster (WC)	Well Name	Date	Groundwater Zone	Groundwater Elevation (feet PLLW)	Screen Midpoint Elevation (feet PLLW)	Shallow/Intermediate Vertical Gradient (feet/foot) [1]	Intermediate/Deep Vertical Gradient (feet/foot) [1]	Shallow/Deep Vertical Gradient (feet/foot) [1]
WC-4	231GW22	06/04/07	Shallow	9.11	9.67	0.02	NC	NC
	231GW26	06/04/07	Intermediate	8.82	-1.99			
	231GW22	02/26/07	Shallow	9.14	9.67	0.00	NC	NC
	231GW26	02/26/07	Intermediate	9.13	-1.99			
	231GW22	12/04/06	Shallow	8.96	9.67	-0.01	NC	NC
	231GW26	12/04/06	Intermediate	9.10	-1.99			
	231GW22	08/14/06	Shallow	9.08	9.67	0.02	NC	NC
	231GW26	08/14/06	Intermediate	8.80	-1.99			
	231GW22	05/22/06	Shallow	9.57	9.67	0.01	NC	NC
	231GW26	05/22/06	Intermediate	9.4	-1.99			
	231GW22	03/06/06	Shallow	9.44	9.67	-0.02	NC	NC
	231GW26	03/06/06	Intermediate	9.62	-1.99			
	231GW22	11/28/05	Shallow	8.99	9.67	-0.01	NC	NC
	231GW26	11/28/05	Intermediate	9.15	-1.99			
	231GW22	08/29/05	Shallow	9.35	9.67	-0.01	NC	NC
	231GW26	08/29/05	Intermediate	9.41	-1.99			
	231GW22	05/23/05	Shallow	10.37	9.67	0.01	NC	NC
	231GW26	05/23/05	Intermediate	10.26	-1.99			
	231GW22	03/14/05	Shallow	9.85	9.67	-0.03	NC	NC
	231GW26	03/14/05	Intermediate	10.2	-1.99			
	231GW22	12/13/04	Shallow	9.06	9.67	-0.06	NC	NC
	231GW26	12/13/04	Intermediate	9.72	-1.99			
	231GW22	08/09/04	Shallow	9.03	9.67	-0.01	NC	NC
	231GW26	08/09/04	Intermediate	9.12	-1.99			
	231GW22	05/24/04	Shallow	9.34	9.67	0.00	NC	NC
	231GW26	05/24/04	Intermediate	9.39	-1.99			
	231GW22	03/08/04	Shallow	9.57	9.67	-0.02	NC	NC
	231GW26	03/08/04	Intermediate	9.76	-1.99			

Table A-10-8
Summary of Vertical Gradients at Well Clusters
Building 231/207 Area
Presidio of San Francisco, California

Well Cluster (WC)	Well Name	Date	Groundwater Zone	Groundwater Elevation (feet PLLW)	Screen Midpoint Elevation (feet PLLW)	Shallow/Intermediate Vertical Gradient (feet/foot) [1]	Intermediate/Deep Vertical Gradient (feet/foot) [1]	Shallow/Deep Vertical Gradient (feet/foot) [1]
WC-4	231GW22	12/01/03	Shallow	8.65	9.67	-0.03	NC	NC
	231GW26	12/01/03	Intermediate	9.01	-1.99			
	231GW22	08/11/03	Shallow	9.00	9.67	0.01	NC	NC
	231GW26	08/11/03	Intermediate	8.84	-1.99			
	231GW22	06/02/03	Shallow	9.41	9.67	0.04	NC	NC
	231GW26	06/02/03	Intermediate	8.91	-1.99			
	231GW22	03/10/03	Shallow	9.66	9.67	-0.01	NC	NC
	231GW26	03/10/03	Intermediate	9.8	-1.99			

Notes
NC - not calculated
1 - Vertical gradients are calculated by dividing the distance in groundwater elevations between two adjacent wells screened in separate water-bearing zones by the vertical distance between the midpoint elevations of the two well screens (Table 3). In each case, the value for the shallower well is subtracted from that of the deeper well. A positive value indicates a downward vertical gradient, while a negative number indicates an upward vertical gradient.
feet PLLW - feet above Presidio Lower Low Water vertical datum



N

150 0 150 Feet

LEGEND

231GW21	Shallow Groundwater Monitoring Well
231PZ02	Shallow Piezometer
231GW15	Intermediate Groundwater Monitoring Well
231GW20	Deep Groundwater Monitoring Well
OW-1	Deep Piezometer
HGB-2-40	Adjacent Study Area Well
1065PZ2A	Adjacent Study Area Piezometer
1065PZ1A	Abandoned Groundwater Monitoring Well / Piezometer
	Topographic Contour (Contour Interval: 10 ft)
	Former Fill Site 6A Excavation Boundary
	Former Building Outline
	Approximate Lateral Extent of Fill Site 6B
201	Building and Number

Notes:
Location of limits of fill from Revised Main Installation Sites Feasibility Study (EKI, 2003).

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datum: (topography) North American Vertical Datum, NAVD88

BUILDING 231/207 AREA SITE PLAN

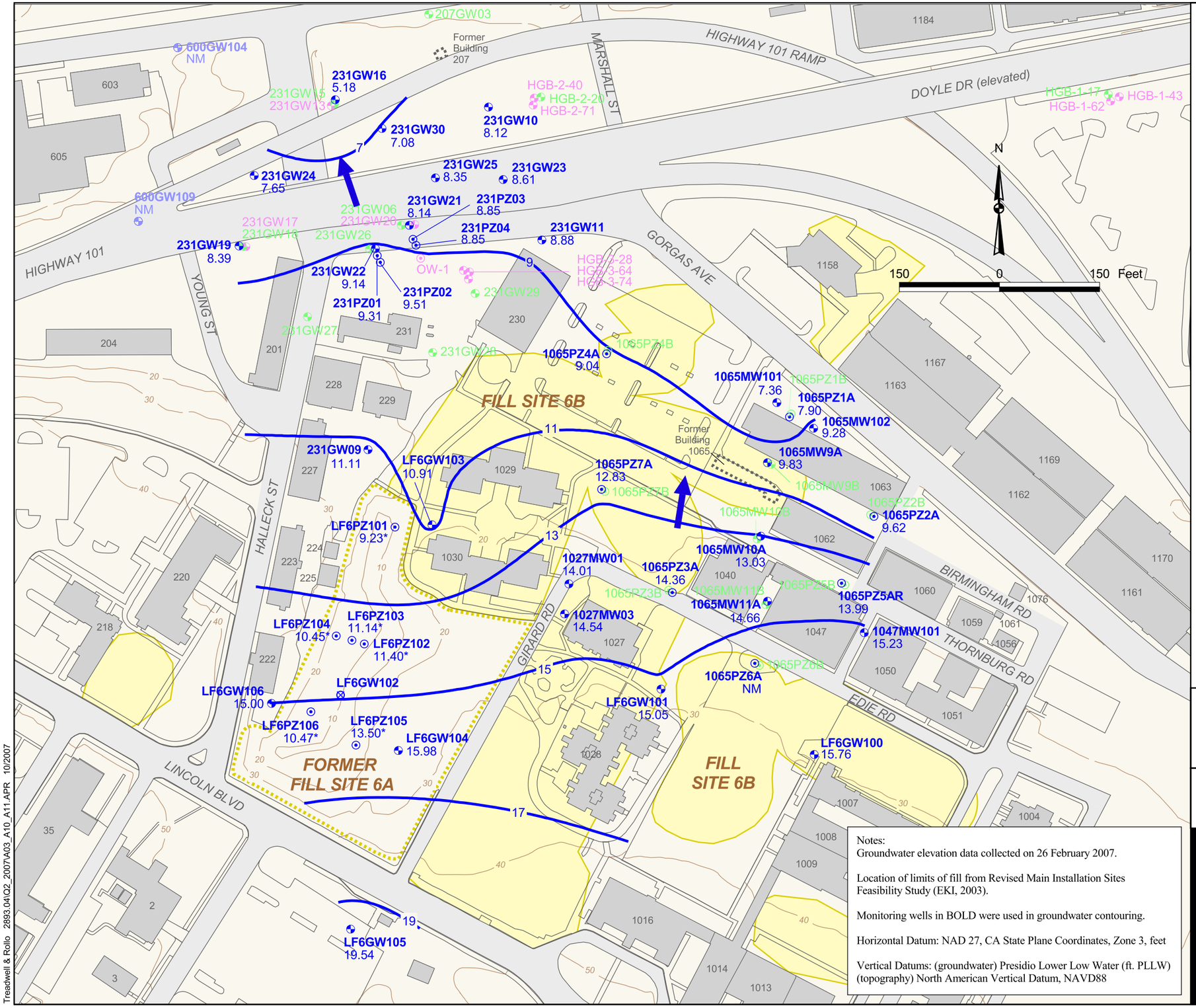
Treadwell&Rollo

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October 2007

FIGURE A-10-1

Treadwell & Rollo 2893.04\Q2_2007\A03_A10_A11.APR 10/2007



LEGEND

231GW21 8.14	Shallow Groundwater Monitoring Well February 2007 Groundwater Elevation
231PZ01 9.31	Shallow Piezometer February 2007 Groundwater Elevation
*	Shallow Piezometer not used for groundwater contouring.
NM	Not measured
LF6GW102	Abandoned Shallow Groundwater Monitoring Well
600GW104	Adjacent Study Area Shallow Groundwater Well
231GW15	Intermediate Groundwater Monitoring Well
1065PZ1B	Intermediate Piezometer
231GW17	Deep Groundwater Monitoring Well
OW-1	Deep Piezometer
	Approximate Direction of Groundwater Flow
	Groundwater Contour (Contour Interval: 2 ft)
	Topographic Contour (Contour Interval: 10 ft)
	Former Building Outline
	Former Fill Site 6A Excavation Boundary
	Approximate Lateral Extent of Fill Site 6B
201	Building and Number

BUILDING 231/207, BUILDING 1065/1027, AND FILL SITE 6 26 FEBRUARY 2007 SHALLOW GROUNDWATER ELEVATION MAP

Notes:
Groundwater elevation data collected on 26 February 2007.

Location of limits of fill from Revised Main Installation Sites Feasibility Study (EKI, 2003).

Monitoring wells in BOLD were used in groundwater contouring.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

Treadwell&Rollo

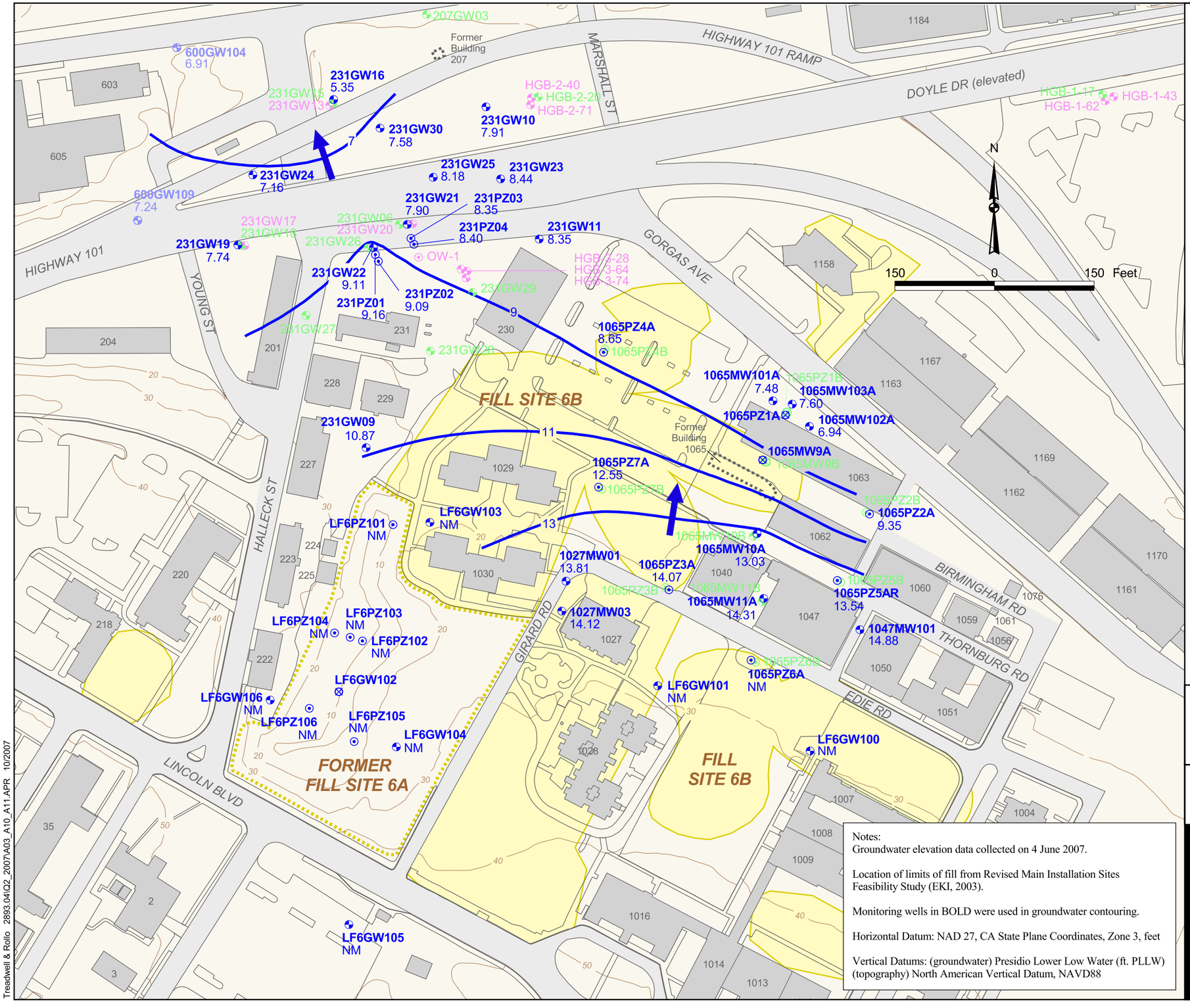
THE PRESIDIO TRUST

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October 2007

FIGURE A-10-2

Treadwell & Rollo 2893.04\Q2_2007\A03_A10_A11.APR 10/2007



LEGEND

213GW21 7.90	Shallow Groundwater Monitoring Well June 2007 Groundwater Elevation
231PZ01 9.16	Shallow Piezometer June 2007 Groundwater Elevation
NM	Not measured
LF6GW102	Abandoned Shallow Groundwater Monitoring Well / Piezometer
600GW104 6.91	Adjacent Study Area Shallow Groundwater Well June 2007 Groundwater Elevation
231GW15	Intermediate Groundwater Monitoring Well
1065PZ2B	Intermediate Piezometer
1065PZ1B	Abandoned Intermediate Groundwater Monitoring Well / Piezometer
231GW17	Deep Groundwater Monitoring Well
OW-1	Deep Piezometer
	Approximate Direction of Groundwater Flow
	Groundwater Contour (Contour Interval: 2 ft)
	Topographic Contour (Contour Interval: 10 ft)
	Former Building Outline
	Former Fill Site 6A Excavation Boundary
	Approximate Lateral Extent of Fill Site 6B
201	Building and Number

BUILDING 231/207, BUILDING 1065/1027, AND FILL SITE 6
4 JUNE 2007
SHALLOW GROUNDWATER ELEVATION MAP

Notes:
Groundwater elevation data collected on 4 June 2007.

Location of limits of fill from Revised Main Installation Sites Feasibility Study (EKI, 2003).

Monitoring wells in BOLD were used in groundwater contouring.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

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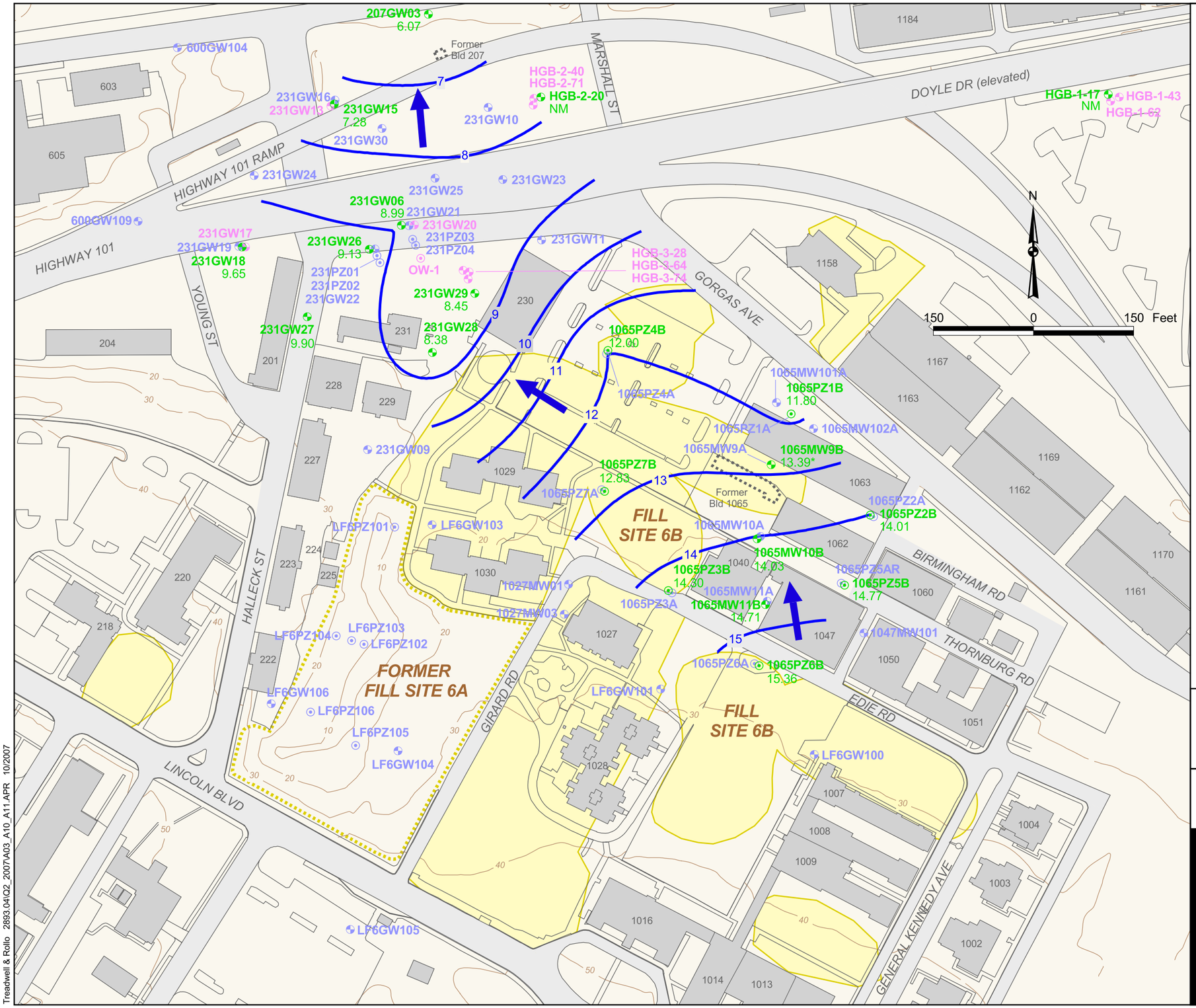
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FIGURE A-10-3

Treadwell & Rollo 2893.04\Q2_2007\A03_A10_A11.APR 10/2007



LEGEND

231GW26 9.13	Intermediate Groundwater Monitoring Well February 2007 Groundwater Elevation
1065PZ1B 11.80	Intermediate Piezometer February 2007 Groundwater Elevation
NM	Not Measured. Well approved for removal from the groundwater monitoring program.
*	Well not used in contouring because groundwater within it was at or above the top of casing. Value posted is top of casing elevation.
231GW21	Shallow Groundwater Monitoring Well
1065PZ1A	Shallow Piezometer
231GW20	Deep Groundwater Monitoring Well
OW-1	Deep Piezometer
	Approximate Direction of Groundwater Flow
	Groundwater Contour (Contour Interval: 1 ft)
	Topographic Contour (Contour Interval: 10 ft)
	Former Building Outline
	Former Fill Site 6A Excavation Boundary
	Approximate Lateral Extent of Fill Site 6B
201	Building and Number

Notes:
Groundwater elevation data collected on 26 February 2007.

Monitoring wells in BOLD were used in groundwater contouring.

The HBG wells were approved for removal from the groundwater monitoring program prior to the Third Quarter 2005.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

BUILDING 231/207 AND BUILDING 1065
26 FEBRUARY 2007
INTERMEDIATE GROUNDWATER ELEVATION MAP

Treadwell&Rollo

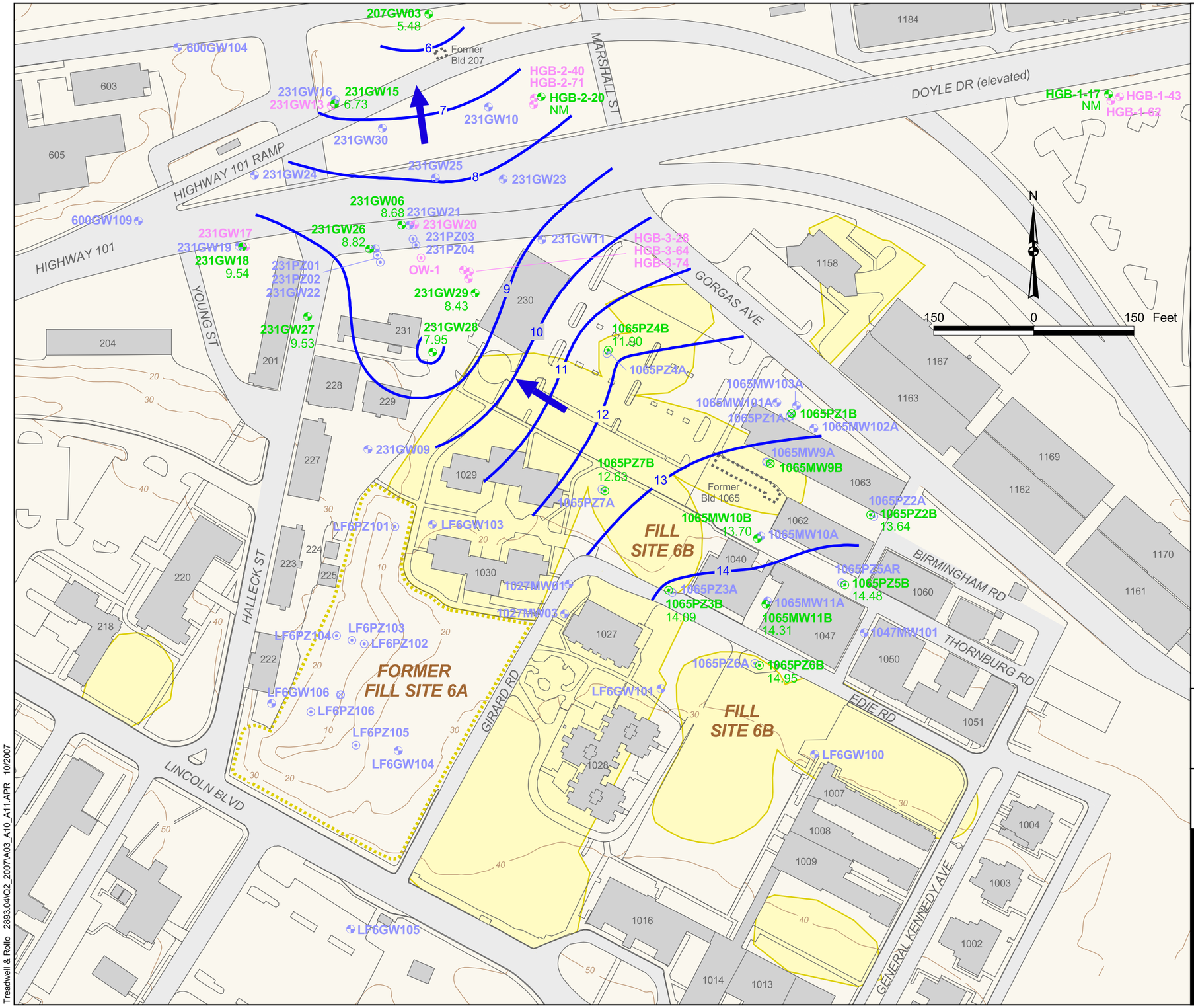
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FIGURE A-10-4

Treadwell & Rollo 2893.04\Q2_2007\A03_A10_A11.APR 10/2007



LEGEND

- 231GW26 / 8.82 — Intermediate Groundwater Monitoring Well, June 2007 Groundwater Elevation
- 1065PZ2B / 13.64 — Intermediate Piezometer, June 2007 Groundwater Elevation
- NM — Not Measured. Well approved for removal from the groundwater monitoring program.
- 1065PZ1B — Abandoned Intermediate Groundwater Monitoring Well / Piezometer
- 231GW21 — Shallow Groundwater Monitoring Well
- 1065PZ2A — Shallow Piezometer
- 1065PZ1A — Abandoned Shallow Groundwater Monitoring Well / Piezometer
- 231GW20 — Deep Groundwater Monitoring Well
- OW-1 — Deep Piezometer
- Approximate Direction of Groundwater Flow
- Groundwater Contour (Contour Interval: 1 ft)
- Topographic Contour (Contour Interval: 10 ft)
- Former Building Outline
- Former Fill Site 6A Excavation Boundary
- Approximate Lateral Extent of Fill Site 6B
- 201 — Building and Number

Notes:
Groundwater elevation data collected on 4 June 2007.

Monitoring wells in BOLD were used in groundwater contouring.

The HBG wells were approved for removal from the groundwater monitoring program prior to the Third Quarter 2005.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

BUILDING 231/207 AND BUILDING 1065
4 JUNE 2007
INTERMEDIATE GROUNDWATER ELEVATION MAP

Treadwell&Rollo

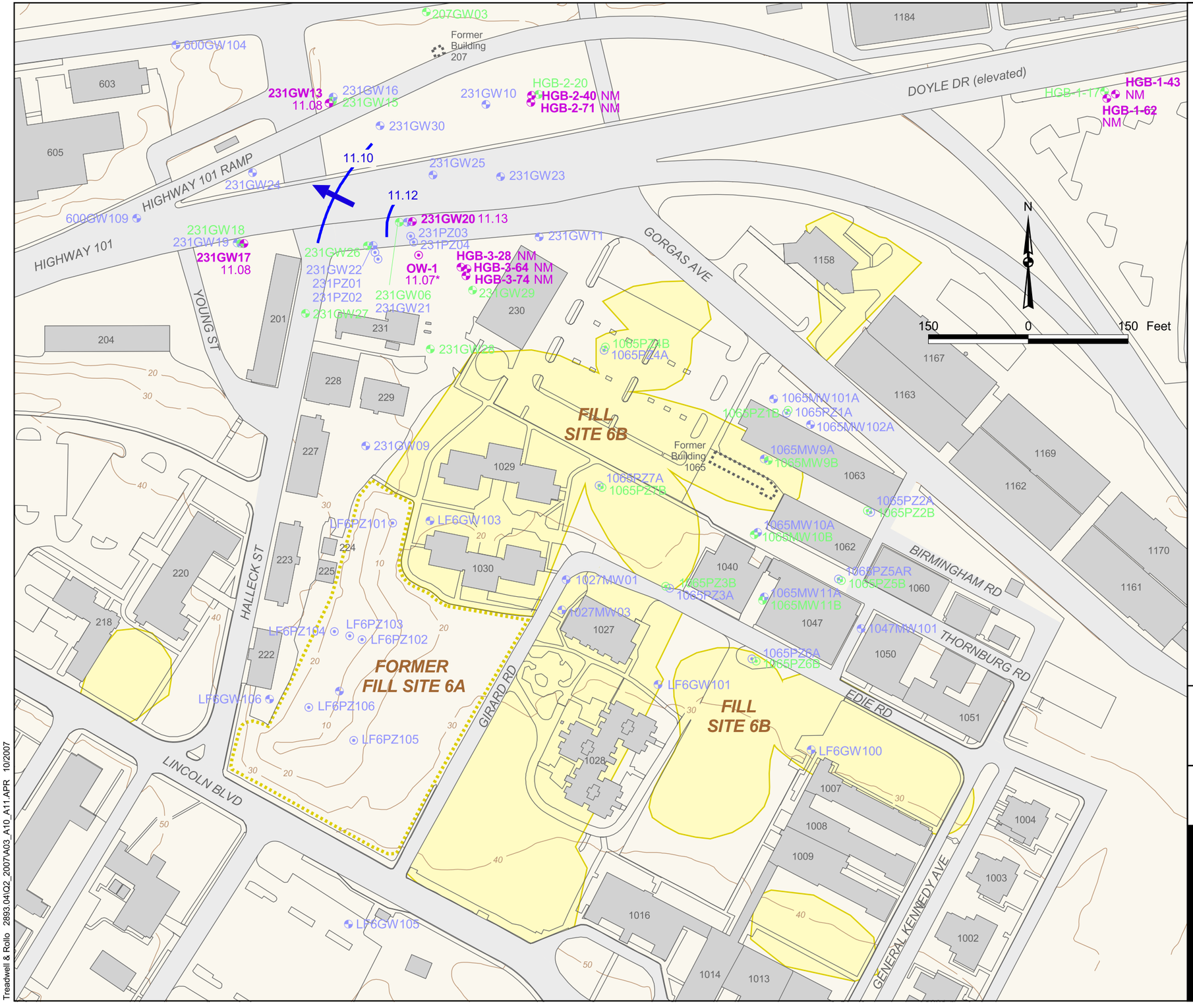
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FIGURE A-10-5

Treadwell & Rollo 2893.04\Q2_2007\A03_A10_A11.APR 10/2007



LEGEND

231GW20 11.13	Deep Groundwater Monitoring Well February 2007 Groundwater Elevation
OW-1 11.07	Deep Piezometer February 2007 Groundwater Elevation
NM	Not Measured. Well approved for removal from the groundwater monitoring program.
*	Deep Piezometer not used for groundwater contouring.
231GW21	Shallow Groundwater Monitoring Well
1065PZ1A	Shallow Piezometer
1065MW9B	Intermediate Groundwater Monitoring Well
1065PZ1B	Intermediate Piezometer
	Approximate Direction of Groundwater Flow
	Groundwater Contour (Contour Interval: 0.02 ft)
	Former Building Outline
	Topographic Contour (Contour Interval: 10 ft)
	Former Fill Site 6A Excavation Boundariy
	Approximate Lateral Extent of Fill Site 6B
201	Building and Number

Notes:
Groundwater elevation data collected on 26 February 2007.

Monitoring wells in BOLD were used in groundwater contouring.

The HBG wells were approved for removal from the groundwater monitoring program prior to the Third Quarter 2005.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

BUILDING 231/207
26 FEBRUARY 2007
DEEP GROUNDWATER
ELEVATION MAP

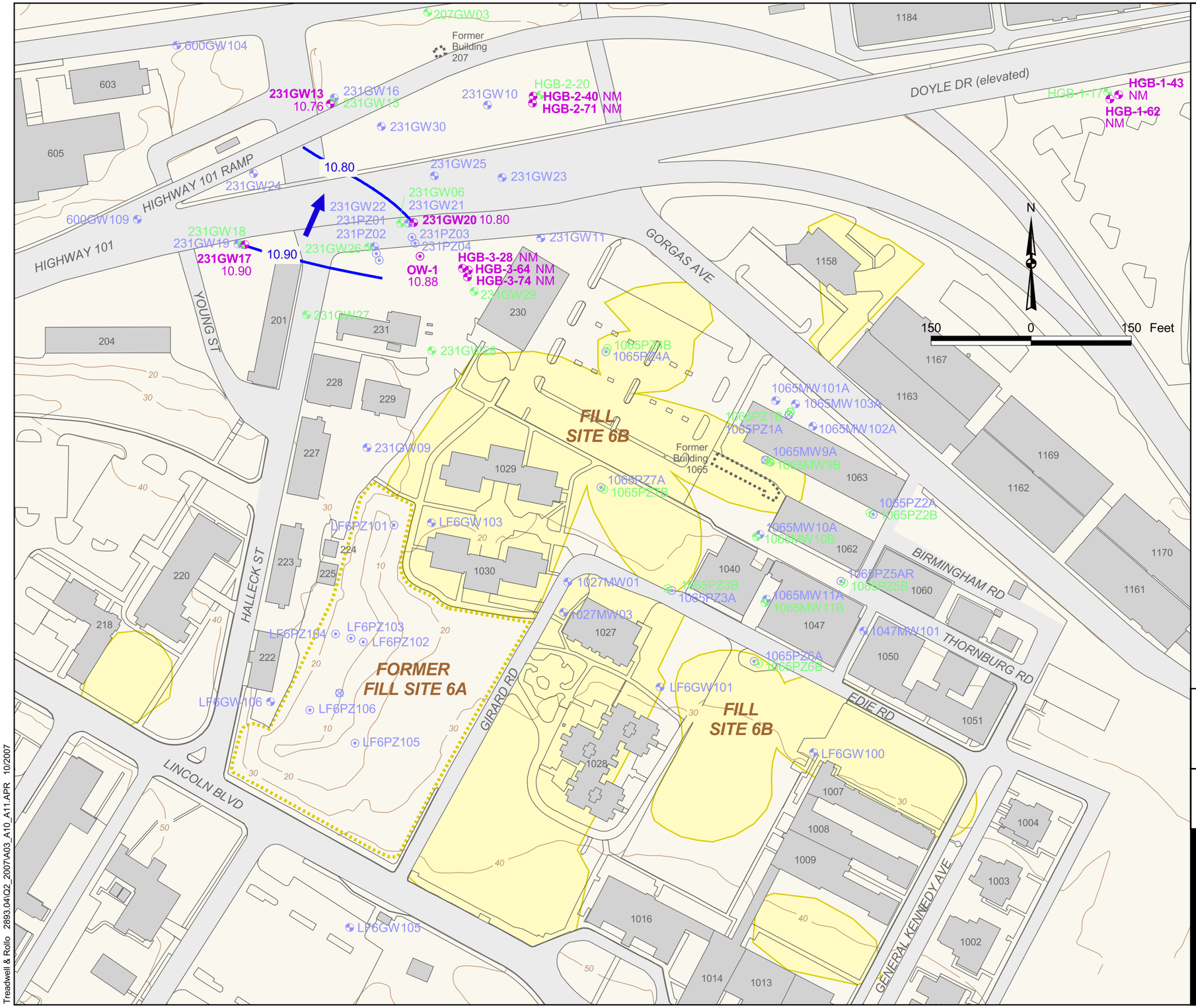
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FIGURE A-10-6

Treadwell & Rollo 2893.04\Q2_2007\A03_A10_A11.APR 10/2007



LEGEND

- **231GW20** 10.80 — Deep Groundwater Monitoring Well, June 2007 Groundwater Elevation
- **OW-1** 10.88 — Deep Piezometer, June 2007 Groundwater Elevation
- NM — Not Measured. Well approved for removal from the groundwater monitoring program.
- 231GW21 — Shallow Groundwater Monitoring Well
- 1065PZ1A — Shallow Piezometer
- 1065PZ1A — Abandoned Shallow Groundwater Monitoring Well / Piezometer
- 1065MW9B — Intermediate Groundwater Monitoring Well
- 1065PZ1B — Intermediate Piezometer
- 1065PZ1B — Abandoned Intermediate Groundwater Monitoring Well / Piezometer
- Approximate Direction of Groundwater Flow
- Groundwater Contour (Contour Interval: 0.10 ft)
- Former Building Outline
- Topographic Contour (Contour Interval: 10 ft)
- Former Fill Site 6A Excavation Boundariy
- Approximate Lateral Extent of Fill Site 6B
- 201 — Building and Number

Notes:
Groundwater elevation data collected on 4 June 2007.

Monitoring wells in BOLD were used in groundwater contouring.

The HBG wells were approved for removal from the groundwater monitoring program prior to the Third Quarter 2005.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

BUILDING 231/207
4 JUNE 2007
DEEP GROUNDWATER ELEVATION MAP

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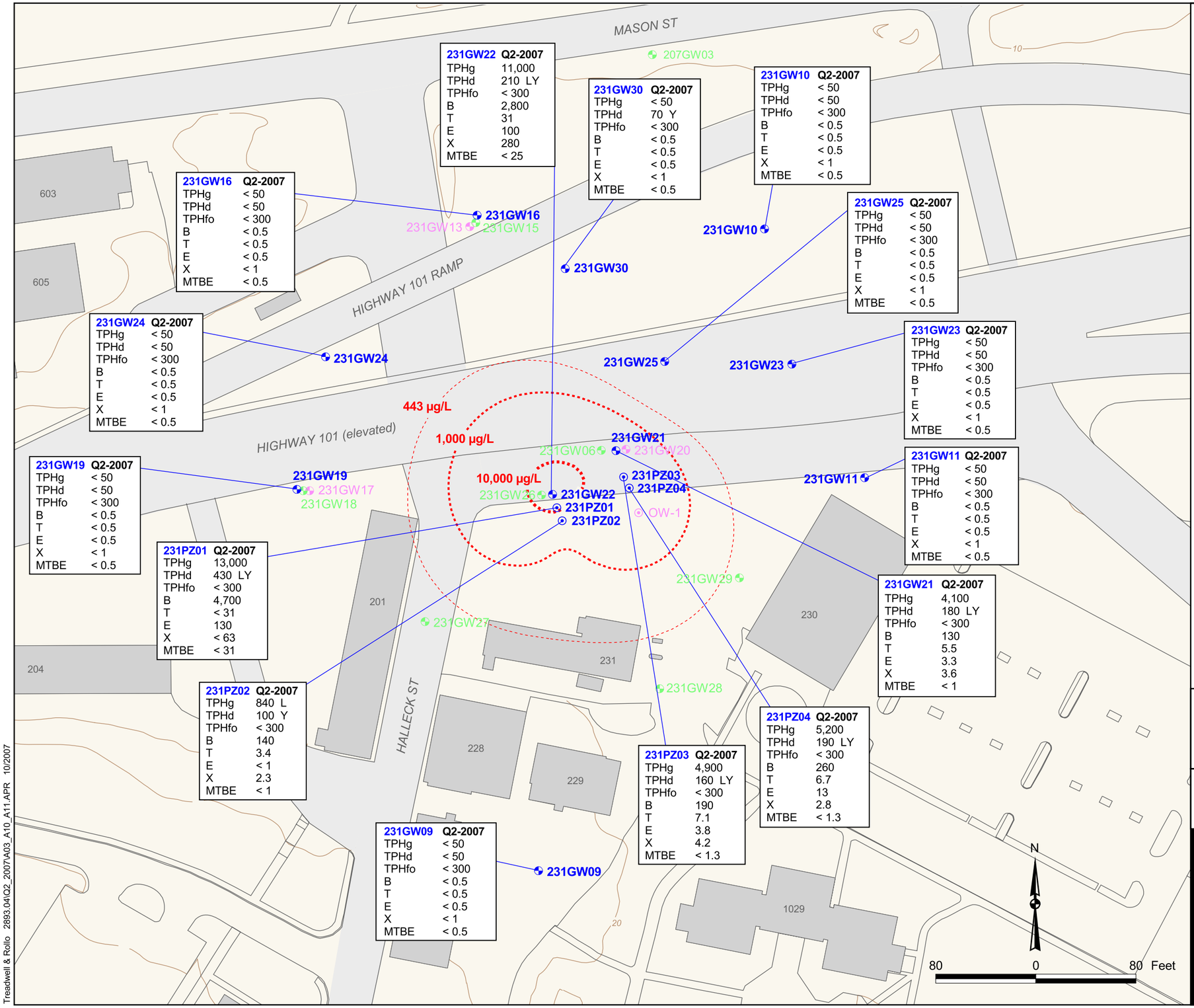
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FIGURE A-10-7

Treadwell & Rollo 2893.04\Q2_2007\A03_A10_A11.APR 10/2007



LEGEND

- 231GW21 — Shallow Groundwater Monitoring Well
- 231PZ03 — Shallow Piezometer
- 231GW15 — Intermediate Groundwater Monitoring Well
- 231GW17 — Deep Groundwater Monitoring Well
- OW-1 — Deep Piezometer
- Approximate TPHg freshwater protection zone exceedance contour (443 µg/L)
- Approximate TPHg (1,000 µg/L) exceedance contour
- Approximate TPHg (10,000 µg/L) exceedance contour
- Topographic Contour (Contour Interval : 10 ft)
- 201 — Building and Number

Notes:
Annual sampling of the 207/231 wells was postponed from 1st Quarter 2007 to 2nd Quarter 2007 because remediation was anticipated to begin in Summer 2007 but has since been delayed until the Summer 2008.

Groundwater concentration data in µg/L - micrograms per liter

TPHg - Total Petroleum Hydrocarbons as Gasoline
TPHd - Total Petroleum Hydrocarbons as Diesel
TPHfo - Total Petroleum Hydrocarbons as Fuel Oil
B - Benzene
T - Toluene
E - Ethylbenzene
X - Xylenes (total)
MTBE - Methyl tert-Butyl Ether

DU - Blind Duplicate
CL - Quality Control Duplicate

Refer to Table 11 for data qualifiers.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (topography) North American Vertical Datum, NAVD88

BUILDING 231/207 AREA
2007 CHEMICAL CONCENTRATION MAP
TPH, BTEX, AND MTBE
IN SHALLOW GROUNDWATER

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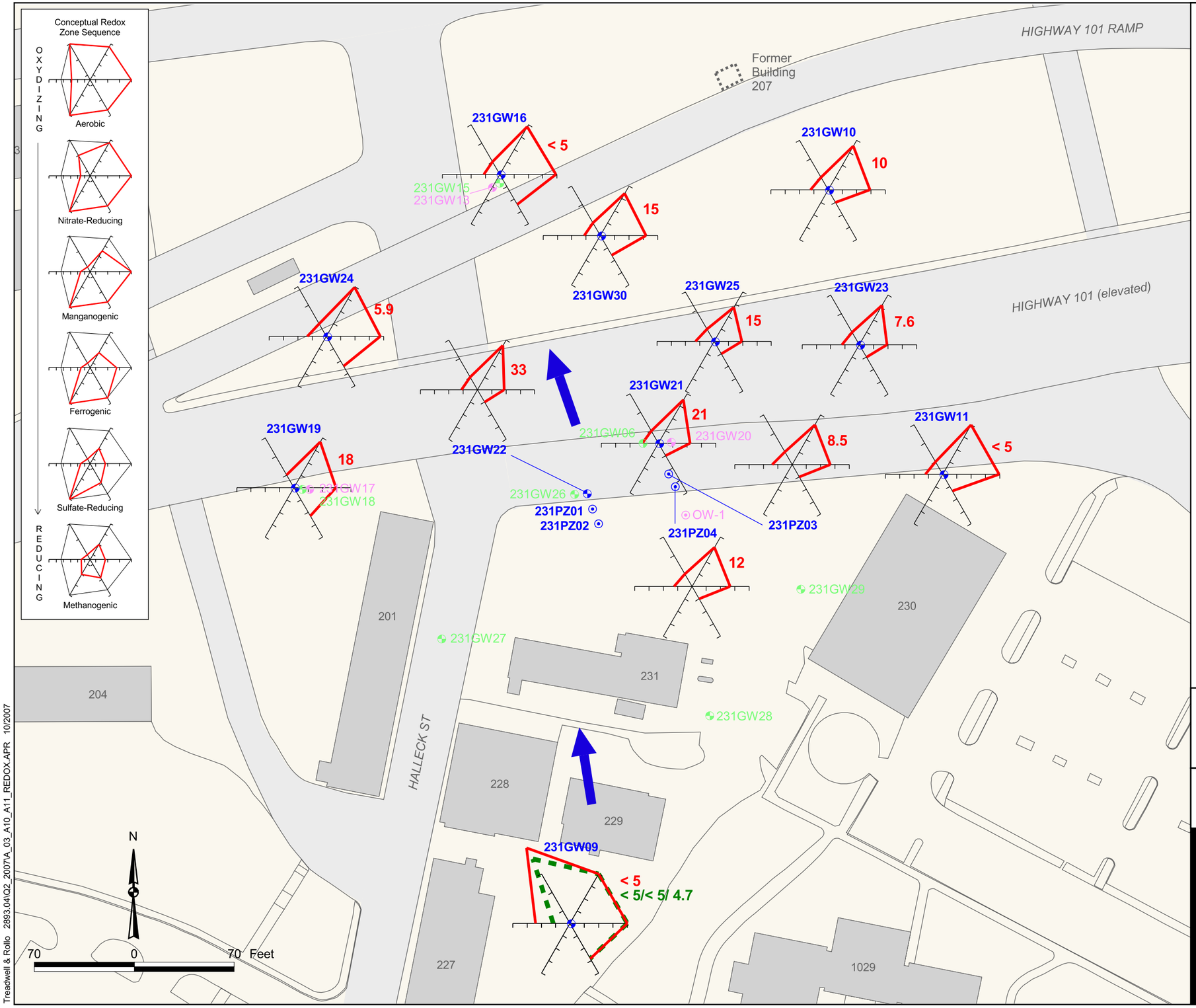
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FIGURE A-10-8

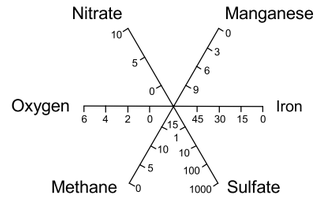
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Treadwell & Rollo 2893.04\Q2_2007\A_03_A10_A11_REDOX.APR 10/2007

LEGEND

- 231GW21 — Shallow Groundwater Monitoring Well
- 231PZ03 — Shallow Piezometer
- 231GW15 — Intermediate Groundwater Monitoring Well
- 231GW17 — Deep Groundwater Monitoring Well
- OW-1 — Deep Piezometer
- Approximate Direction of Groundwater Flow
- 201 — Building and Number



Note: All axes are in normal scale, groundwater concentrations are in milligrams per liter (mg/L).

- Q2-2007 Groundwater Concentrations
- < 5 — Q2-2007 Dissolved Arsenic Concentration (µg/L) (EPA Method SW6010/SW6020)
- Q1-2007 Groundwater Concentrations
- < 5/ < 5/ 4.7 — Q1-2007 Dissolved Arsenic Concentration (µg/L) (EPA Method SW6010/SW6020)
  - Second value represents a blind duplicate.
  - Third value represents a quality control duplicate.

Notes:
Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

BUILDING 231/207 AREA REDOX DIAGRAMS FOR SHALLOW GROUNDWATER

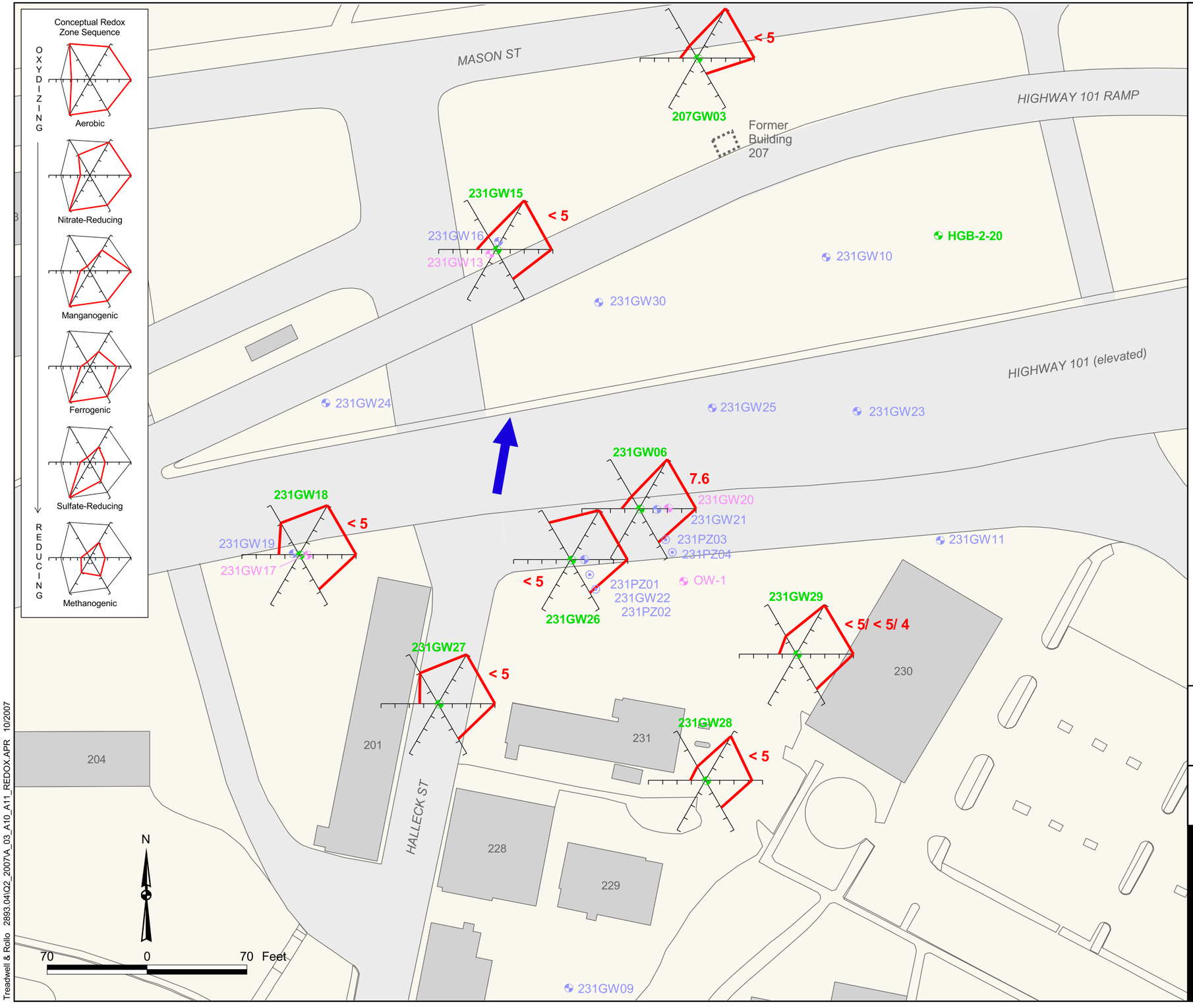
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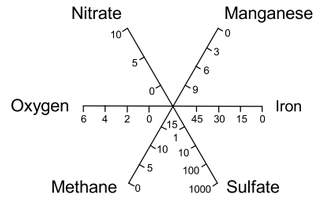
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FIGURE A-10-9



LEGEND

- 231GW15 — Intermediate Groundwater Monitoring Well
- 231GW21 — Shallow Groundwater Monitoring Well
- 231PZ03 — Shallow Piezometer
- 231GW17 — Deep Groundwater Monitoring Well
- OW-1 — Deep Piezometer
- Approximate Direction of Groundwater Flow
- 201 — Building and Number



Note: All axes are in normal scale, groundwater concentrations are in milligrams per liter (mg/L).

Q2-2007 Groundwater Concentrations

< 5/ < 5/ 4 — Q2-2007 Dissolved Arsenic Concentration (µg/L) (EPA Method SW6010/SW6020)

Second value represents a blind duplicate.
Third value represents a quality control duplicate.

Notes:
Annual sampling of the 207/231 wells was postponed from 1st Quarter 2007 to 2nd Quarter 2007 because remediation was anticipated to begin in Summer 2007 but has since been delayed until the Summer 2008.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

BUILDING 231/207 AREA REDOX DIAGRAMS FOR INTERMEDIATE GROUNDWATER

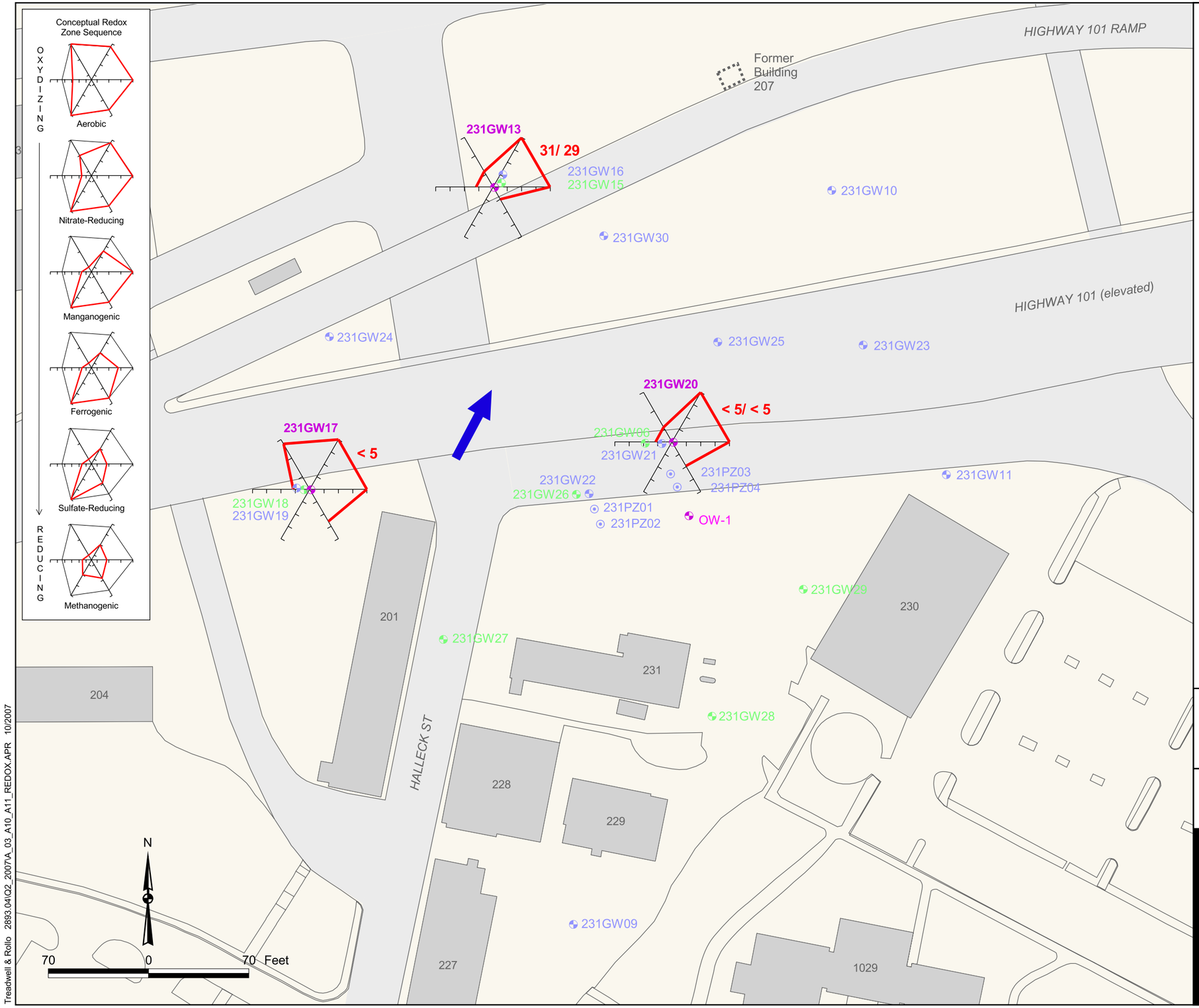
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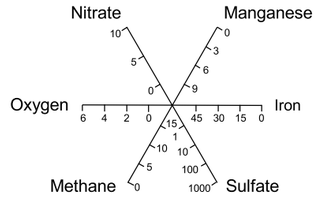
FIGURE A-10-10

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LEGEND

- 231GW17 — Deep Groundwater Monitoring Well
- OW-1 — Deep Piezometer
- 231GW15 — Intermediate Groundwater Monitoring Well
- 231GW21 — Shallow Groundwater Monitoring Well
- 231PZ03 — Shallow Piezometer
- Approximate Direction of Groundwater Flow
- 201 — Building and Number



Note: All axes are in normal scale, groundwater concentrations are in milligrams per liter (mg/L).

- Q2-2007 Groundwater Concentrations
- 31/ 29 — Q2-2007 Dissolved Arsenic Concentration (µg/L) (EPA Method SW6010/SW6020)
  - Second value represents a blind duplicate.

Notes:
Annual sampling of the 207/231 wells was postponed from 1st Quarter 2007 to 2nd Quarter 2007 because remediation was anticipated to begin in Summer 2007 but has since been delayed until the Summer 2008.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

BUILDING 231/207 AREA REDOX DIAGRAMS FOR DEEP GROUNDWATER

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FIGURE A-10-11

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First Quarter 2007

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Building 231 | Well No.: 2316W09
Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: DR | Sampled by: DR | Date: 2/27/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 20.00
Depth to Water (WL, ft. below TOC): 14.24
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disposable
[ ] Normal [ ] Pump \ Type:
[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):
[ ] Near Bottom Depth (ft):
[X] Other:

PURGE VOLUME CALCULATION

5.76 (Water Column Length) x ___ (Water Volume/ft) x ___ (No. Vols) = ___ gals CALCULATED PURGE VOLUME

Total Purge Time: 10 min.
Recharge Rate: ~~—~~
Purge Rate: 0.25 gpm

2.25 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Ultrameter / YSI / Hach / Orion

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND mS/cm	ORP (mV)	Turbidity (NTU)	Comments
1417	0.0	7.5	19.1	Pre 0.23	802	—	12	clear
1420	0.75	7.0	15.3	—	774	—	15	"
1423	1.50	6.9	15.3	—	769	—	16	"
1426	2.25	6.8	16.2	Post 0.37	761	Post 161	19	"

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 2/27/07 / 1435

Purging Equipment: Pump - Type: N/A | Bailer - Type: Disposable | Other:
Sample Filtered: (Yes) / No | Filtered Sample Analysis: Dissolved Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
2316W09	3 x 1L NP Poly	C+T	2180	Collected MS/MSD
	3 x 500mL HNO3 Poly FF			
	3 x 500mL			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.
2316W09	DUP022707 2C

1 x 1L NP Poly
1 x 500mL HNO3 FF
1 x 500mL NaOH/ZnAc

CAS Sample 2316W09C2
2 x 1L NP Poly
1 x 500mL HNO3 FF
1 x 500mL NaOH/ZnAc

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Second Quarter 2007

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Building 231 | Well No.: 207GW03
Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: S. Rose | Sampled by: P. Cornish | Date: 6/8/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 23.89
Depth to Water (WL, ft. below TOC): 4.95
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type: 2" Submersible
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft): 6' then down to 15'
[ ] Near Bottom Depth (ft):
[ ] Other

PURGE VOLUME CALCULATION

18.94 (Water Column Length) x ____ (Water Volume/ft) x 3 (No. Vols) = 56.70 gals CALCULATED PURGE VOLUME

Total Purge Time: 15 mins
Recharge Rate: ____ Purge Rate: 4 gpm

57 gals ACTUAL PURGE VOLUME

Horiba OR P

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 550A/Myron L / Hach Turb.

Time	Liters or ~~gallons~~	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm) µS	ORP (mV)	Turbidity (NTU)	Comments
0828	1	7.4	14.5	–	1667	–	9	DTW = 4.95
0833	19	7.8	14.6	–	1180	–	5	DTW = 11.92
0838	38	7.8	14.5	–	1134	–	6	DTW = 12.09
0843	57	7.8	14.2	–	1125	–	8	
			Post DO = .37		Post ORP = 237mV			

Comments: ____ Purge water storage/disposal: [ ] Onsite [X] Other: Waste Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6/8/07 / 0850

Purging Equipment: Pump - Type: 2" Submersible | Bailer - Type: ____ | Other: ____
Sample Filtered: (Yes) / No | Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
207GW03	1L Amber C+T NP	C+T	21210	
	1x 500 ml HNO3 Poly			
	1x 500 ml NaOH + ZN Poly			
	1x 500 ml NP Poly			

QUALITY CONTROL SAMPLES

1x 250 ml NP Poly
Duplicate Samples: 6x 40 ml HCl VOAs

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg. 231 | Well No.: 2316w06

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 6/5/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 22.82

Depth to Water (WL, ft. below TOC): 5.11

Depth to free phase (FP, ft. below TOC):

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type

[X] Normal [X] Pump \ Type: 3" Grundfos

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft): 6.00

[X] Near Bottom Depth (ft): 18.00

[ ] Other

PURGE VOLUME CALCULATION

17.7 (Water Column Length) x 1.937 (Water Volume/ft) x 3 (No. Vols) = 103.0 gals CALCULATED PURGE VOLUME

103 gals ACTUAL PURGE VOLUME

Total Purge Time: 20 min.

Recharge Rate: good | Purge Rate: 6 gpm

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 550A / Hach / Myron L / Horiba

Time	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1202	initial	7.6	19.0	—	669	—	31	clear
1208	34.3	7.2	20.0	—	699	—	24	"
1214	68.6	7.2	20.9	—	714	—	17	"
1220	103.0	7.2	21.1	Post 0.40	715	152	11	"

Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tanks

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6/5/07 / 1230

Purging Equipment: Pump - Type: 3" ES | Bailer - Type: Disposable | Other:

Sample Filtered: (Yes) / No | Filtered Sample Analysis: D.is. Mn, Fe (14) HNO3

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
2316w06	1x500mL NP Poly	C&T	2159	
	1x500mL HNO3 FF Poly			
	1x250mL NP Poly			
	6x 40mL HCl vials			

QUALITY CONTROL SAMPLES

1x 500mL NaOH, Zinc Poly

Duplicate Samples: 1x1L NP Amber

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 231 | Well No.: 231GW09

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BP | Sampled by: BP | Date: 6-5-07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): --

Depth to Water (WL, ft. below TOC): 13.50

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: disp

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[X] Near top Depth (ft): 14'

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length: ___ X Water Volume/ft: ___ X No. Vols: ___ = ___ gals CALCULATED PURGE VOLUME

Total Purge Time: 9 min

Recharge Rate: ___ Purge Rate: 0.5

2 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Horiba U-22 / Myron Ultra

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1238	/	Initial	6.68	17.8	3.75	778 µS		9	
1241	/	1.0	6.60	17.3		786		8	DTW ~~14.40~~ 14.40
1244	/	2.0	6.61	17.3	2.84	790	84	8	DTW: 14.81
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Comments: ___ Purge water storage/disposal: [ ] Drummed onsite [X] Other: Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6-5-07 / 1250

Purging Equipment: Pump - Type: ___ Bailer - Type: disp Other: ___

Sample Filtered: (Yes) / No Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231GW09	3 x 500mL Poly	CT	2160	
	1 x 250 mL Poly			
	1 x 1L Amb			
	6 x 40mL VOA			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell & Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Building 231 | Well No.: 231GW10

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BP | Sampled by: BP | Date: 6-7-07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC): 3.44

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [X] Other peri

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft) 8'
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 21 min

Recharge Rate: Purge Rate: 300 mL/min

7L gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556 / Horiba Hybrid

Time	/ Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND mS (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
847	/ Drying	6.83	19.9	0.70	1250	-96.5	10	
850	/ 1L	6.88	20.6	0.40	1230	-120.4	8	DTW=3.73
853	/ 2L	6.89	20.9	0.49	1230	-125.4	8	DTW=3.80
856	/ 3L	6.87	21.0	1.10	1229	-127.1	8	
859	/ 4L	6.86	21.0	0.58	1230	-129.7	6	DTW=3.84
902	/ 5L	6.82	21.0	0.48	1230	-129.8	8	
905	/ 6L	6.80	21.0	0.45	1230	-130.4	8	DTW=3.86
908	/ 7L	6.80	21.0	0.43	1233	-130.5	7	
	/							
	/							
	/							
	/							
	/							
	/							
	/							

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6-7-07 / 910

Purging Equipment: Pump - Type: Bailer - Type: Other peri

Sample Filtered: Yes / No Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231GW10	6X40mL VOAs	CLT	2125	
	3X500mL Poly			
	1X 250mL Poly			
	1X 1L Amb			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	TB060707 3A
Rinsate	
Transfer	
Other:	

Treadwell & Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg 231 | Well No.: 2316w11
Project Number: 7893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: DR | Sampled by: DR | Date: 6/7/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other
Well Total Depth (TD, ft. below TOC): 9.15
Depth to Water (WL, ft. below TOC): 2.71
Depth to free phase (FP, ft. below TOC):
Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp.
[ ] Normal [ ] Pump \ Type:
[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):
[ ] Near Bottom Depth (ft):
[ ] Other:

PURGE VOLUME CALCULATION

6.44 (Water Column Length) x — (Water Volume/ft) x — (No. Vols) = — gals CALCULATED PURGE VOLUME

Total Purge Time: 10 min.
Recharge Rate:
Purge Rate: 0.5 gpm

4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556A / Hach / Horiba / Myron L

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND mS/cm	ORP (mV)	Turbidity (NTU)	Comments
0838	/	Initial	5.9	17.0	Pre 0.19	494	—	37	odor
0841	/	1.5	6.4	11.8	—	544	—	81	"
0844	/	3.0	6.6	17.9	—	553	—	214	"
0847	/	4.5	6.7	17.9	Post 0.4	561	Post -61	603	"
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Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tanks

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6/7/07 / 0855

Purging Equipment: Pump - Type: — Bailer - Type: Disp. Other:
Sample Filtered: (Yes) / No Filtered Sample Analysis: Diss. Mn/Fe FF(1d)

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
2316w11	1 x 500mL NP Poly	C&T	7163	
	1 x 500mL HNO3 Poly			
	1 x 500mL NaOH+Zinc Poly			
	1 x 250 mL NP Poly			

QUALITY CONTROL SAMPLES

Duplicate Samples: 1x 1L NP Amber, 6x 40mL HCL Vocs

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell & Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg. 231 | Well No.: 231GW13

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 6/15/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 46.45

Depth to Water (WL, ft. below TOC): 2.95

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
(6)	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type

[X] Normal [X] Pump \ Type: 3" ES

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft): 4.00

[X] Near Bottom Depth (ft): 46.00

[ ] Other

PURGE VOLUME CALCULATION

43.5 (Water Column Length) x 1.68 (Water Volume/ft) x 3 (No. Vols) = 219.2 gals CALCULATED PURGE VOLUME

Total Purge Time: 45 min.

Recharge Rate: good

Purge Rate: 6 gpm

229 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556A / Hach / Hach / Myron L

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1240 / 0	7.5	20.7	–	738 MS	–	13	clear
1252 / 73.1	7.3	20.8	–	764	–	12	"
1310 / 146.2	7.7	18.9	–	1278	–	12	"
1322 / 219.3	7.8	18.7	Post 0.38	1701	Post 202	10	"
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Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker tanks

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6/15/07 / 1330

Purging Equipment: Pump - Type: 3" ES | Bailer - Type: Disposable | Other:

Sample Filtered: Yes / No | Filtered Sample Analysis: Diss. Metals (14)

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231GW13	3 x 500 mL NP Poly	CLT	2159	Collected MS/MSD
	3 x 250 mL NP Poly			
	3 x 500 mL HNO_3 Poly RP			
	3 x 500 mL $NaOH$ Fltrd Poly			

QUALITY CONTROL SAMPLES

3 x 1 LNP ambers

Duplicate Samples: 18 x 40 mL HCl vials

Original Sample No.	Duplicate Sample No.
231GW13	DUP060507-2B

@ 1345

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg. 231 | Well No.: 231GW15

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 6/7/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 19.68

Depth to Water (WL, ft. below TOC): 4.30

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
10.5	4	1.805
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type: 3"ES
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft): 6.0
[X] Near Bottom Depth (ft): 18.0
[ ] Other

PURGE VOLUME CALCULATION

15.38 (Water Column Length) x 1.805 (Water Volume/ft) x 3 (No. Vols) = 83.3 gals CALCULATED PURGE VOLUME

54 gals ACTUAL PURGE VOLUME

Total Purge Time: 15 min.

Recharge Rate: good | Purge Rate: 6 gpm

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556A / Hach / Horiba / Myron L

Time	Liters or (Gallons)	pH	Temp (C) °F	DO (mg/L)	Sp. COND µS/cm	ORP (mV)	Turbidity (NTU)	Comments
1051	Init.	7.7	15.6	—	811	—	12	odor
1056	27.8	7.5	16.4	—	778	—	14	"
1101	55.6	7.5	17.0	—	745	—	9	"
1106	83.4	7.6	17.2	Pert 0.63	737	Pert -102	7	"

Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tanks

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6/7/07 / 1115

Purging Equipment: Pump - Type: 3"ES | Bailer - Type: Disp. | Other:

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Diss. metals (Hg) FF

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231GW15	1x500mL HNO3 Ply	C+T	2103	
	1x500mL HNO3 Ply FF			
	1x500mL H2SO4 Ply			
	1x250mL NP Ply			

QUALITY CONTROL SAMPLES

1x1L NP Amber

Duplicate Samples: 6x40mL HCl VOAs

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell & Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Building 231 | Well No.: 231GW16
Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: BP | Sampled by: BP | Date: 6-7-07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): --
Depth to Water (WL, ft. below TOC): 5.47
Depth to free phase (FP, ft. below TOC):

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type peri
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft) 9'
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 12 min
Recharge Rate:
Purge Rate: 300 mL/min

4L gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556 Horiba turb. d

Time / (Liters or Gallons)	pH	Temp (°C) °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
931 / Initial	7.67	16.7	0.52	2526	-19.9	20	
934 / 1L	7.52	16.8	0.29	2462	-43.5	18	DTW=5.81
937 / 2L	7.46	16.7	0.27	2372	-49.5	17	DTW=5.90
940 / 3L	7.51	16.7	0.27	2330	-52.8	17	DTW=5.97
943 / 4L	7.47	16.6	0.25	2329	-55.5	17	DTW=5.99
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Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6-7-07 / 945

Purging Equipment: Pump - Type peri | Bailer - Type | Other
Sample Filtered: (Yes) / No | Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231GW16	6 x 40 mL VOAs	CT	2125	
	3 x 500 mL poly			
	1 x 250 mL poly			
	1 x 1 L Amber			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultants

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg 231 / 2893 — Well No.: 2316W17

Project Number: — Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR — Sampled by: DR — Date: 6/7/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 34.60

Depth to Water (WL, ft. below TOC): 1.74

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
10.5	4	1.805
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type

[X] Normal [X] Pump \ Type: 3"ES

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft): 3.0

[X] Near Bottom Depth (ft): 30.0

[ ] Other

PURGE VOLUME CALCULATION

32.86 (Water Column Length) x 1.805 (Water Volume/ft) x 3 (No. Vols) = 178 gals CALCULATED PURGE VOLUME

Total Purge Time: 30 min.

Recharge Rate: — Purge Rate: 6 gpm

178 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556A / Horiba / Horiba / Myron L

Time	Liters or (Gallons)	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1423	Init.	7.8	18.7	—	771 MS	—	29	
1433	59.3	7.2	19.3	—	748	—	48	
1443	118.6	7.1	19.2	—	650	—	70	
1453	178	7.1	19.4	Post 0.28	646	Post -4	52	

Comments: — Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tanks

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6/7/07 / 1500

Purging Equipment: Pump - Type: 3" ES — Bailer - Type: Disp. — Other:

Sample Filtered: (Yes) No — Filtered Sample Analysis: Diss. Metals (Li)

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
2316W17	1 x 500mL NP Poly	CFT	2163	
	1 x 500mL HNO3 Poly	FF		
	1 x 500mL NaOH+Zinc	Poly		
	1 x 250mL NP Poly			

QUALITY CONTROL SAMPLES

1 x 1L NP Amber

Duplicate Samples: 6 x 40mL HCl vocs

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell & Rollo
Environmental and Geotechnical Consultants

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg. 231 | Well No.: 2316W18
Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: DR | Sampled by: DR | Date: 6/7/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other
Well Total Depth (TD, ft. below TOC): 18.25
Depth to Water (WL, ft. below TOC): 2.85
Depth to free phase (FP, ft. below TOC):
Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10 10.5	4 4	1.68 1.805
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type: 3"ES
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft): 40
[X] Near Bottom Depth (ft): 160
[ ] Other

PURGE VOLUME CALCULATION

15.4 (Water Column Length) x 1.805 (Water Volume/ft) x 3 (No. Vols) = 83.4 gals CALCULATED PURGE VOLUME

Total Purge Time: 15 min.
Recharge Rate: good
Purge Rate: 6 gpm
85 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 850A / Hach / Horiba / Myron L

Time	Liters or gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1335	0	7.6	18.5	—	753 MS	—	29	
1340	27.8	7.2	19.1	—	752	—	37	
1345	55.6	7.1	19.6	—	753	—	92	
1350	83.4	7.1	19.6	Dest 0.81	761	Post	113	

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tanks

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6/7/07 / 1400
Purging Equipment: Pump - Type: 3" ES | Bailer - Type: Disp. | Other:
Sample Filtered: (Yes) / No | Filtered Sample Analysis: Diss. Mtls (lm)

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
2316W18	1 x 500mL NP Poly	Cal	2163	
	1 x 500mL HNO3 Poly			
	1 x 500mL NaOH+2mL	Poly		
	1 x 250mL NP Poly			

QUALITY CONTROL SAMPLES

1 x 1L NP Amber
Duplicate Samples: 6 x 40mL HCL VOAs

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell & Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg. 231 | Well No.: 231GW19

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 6/7/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 9.32

Depth to Water (WL, ft. below TOC): 4.55

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
10.5	4	1.805
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type ~~Disposable~~

[X] Normal [X] Pump \ Type 3"ES

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft) 6.0

[X] Near Bottom Depth (ft) 6.0

[ ] Other

PURGE VOLUME CALCULATION

4.77 (Water Column Length) x 1.805 (Water Volume/ft) x 3 (No. Vols) = 25.8 gals CALCULATED PURGE VOLUME

Total Purge Time: 5 min

Recharge Rate: | Purge Rate: 6 gpm

26 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 550A / Horiba / Myron L

Time	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1134	(1st Vol)	7.6	18.1	—	723	—	20	clear
1136	8.6	7.2	18.7	—	714	—	36	"
1137	17.2	7.0	19.2	—	719	—	41	"
1139	25.8	7.0	19.3	Post	716	Post	44	"

Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tank 55

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6/7/07 / 1150

Purging Equipment: Pump - Type 3"ES | Bailer - Type Disp | Other

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Diss Metals (1st)

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231GW19	1x500mL NP Poly	CTI	2103	
	1x500mL HNO3 Poly FF			
	1x500mL NaOH+Zinc Poly			
	1x250mL NP Poly			

QUALITY CONTROL SAMPLES

1x1L NP Amber

Duplicate Samples: 6x40mL HCL VOAs

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg. 231 | Well No.: 231GW20
Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: DR | Sampled by: DR | Date: 6/5/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [✓] 4-inch [ ] Other
Well Total Depth (TD, ft. below TOC): 39.88
Depth to Water (WL, ft. below TOC): 2.49
Depth to free phase (FP, ft. below TOC):
Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10.5	(4)	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [✓] Pump \ Type: 3"ES
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft): 5.00
[X] Near Bottom Depth (ft): 25.00
[ ] Other

PURGE VOLUME CALCULATION

37.39 (Water Column Length) x 1.80 (Water Volume/ft) x 3 (No. Vols) = 202.4 gals CALCULATED PURGE VOLUME
285 gals ACTUAL PURGE VOLUME

Total Purge Time: 30min.
Recharge Rate: good
Purge Rate: 6 gpm

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556A / HORIBA U22/ Hach / Mgm L

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND µS/cm	ORP (mV)	Turbidity (NTU)	Comments
0948	Initial	6.3	17.2	—	476 µs	—	149	
0958	67.8	7.1	16.6	—	493	—	100	Clear
1008	139.6	7.2	16.5	—	499	—	18	Clear
1018	202.9	7.3	16.5	Post 0.31	507	Post 176	8	11

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tanks

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6/5/07 / 1030

Purging Equipment: Pump - Type: 3" ES | Bailer - Type: Disposable | Other:
Sample Filtered: (Yes) / No | Filtered Sample Analysis: Diss. Metals (12) HNO3

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231GW20	3x500mL NP Poly	CTT	2159	Collected MS/MSD
	3x500mL HNO3 FF Poly			
	3x250mL NP Poly			
	18x40mL HCl vocs			

QUALITY CONTROL SAMPLES

Duplicate Samples: 3x500mL Amber + Zinc Poly; 3x1L NP Amber

Original Sample No.	Duplicate Sample No.
231GW20	DUP 060507 2A @ 1045

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 2316W23 | Well No.: 2316W23
Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: DR | Sampled by: DR | Date: 6/7/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 7.41
Depth to Water (WL, ft. below TOC): 3.38
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp.
[ ] Normal [ ] Pump \ Type:
[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):
[ ] Near Bottom Depth (ft):
[ ] Other:

PURGE VOLUME CALCULATION

4.03 (Water Column Length) x — (Water Volume/ft) x — (No. Vols) = — gals CALCULATED PURGE VOLUME

Total Purge Time: 10 min
Recharge Rate: —
Purge Rate: 0.5 gpm

4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 550A / Horiba / Horiba / Myron L

Time	/ Liters or (Gallons)	pH	Temp (C) °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
0918	/ —	7.1	13.6	Pre 0.26	896 µS	—	23	
0921	/ 1.5	6.8	13.5	—	1063	—	67	
0924	/ 3.0	6.8	13.4	—	1114	—	107	
0927	/ 4.5	6.8	13.4	Post 0.42	1129	Post -63	175	
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Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tanks

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6/7/07 / 0940

Purging Equipment: Pump - Type: — Bailer - Type: Disp Other:

Sample Filtered: (Yes) / No Filtered Sample Analysis: Diss. Metals (Cu) FF

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
2316W23	1 x 500mL NP Poly	CTI	2163	
	1x 500mL HNO3 Poly			
	1x 500mL NaOH+ZnAc Poly			
	1x 250mL NP Poly			

QUALITY CONTROL SAMPLES

1x 1L NP Amber
Duplicate Samples 6x 40mL HCl Vials

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg. 231 | Well No.: 231 GW 24

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 6/7/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [✓] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 7.83

Depth to Water (WL, ft. below TOC): 4.53

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [✓] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
(16)	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [✓] Pump \ Type: 3" GS
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[✓] Near top Depth (ft):
[X] Near Bottom Depth (ft):
[ ] Other

PURGE VOLUME CALCULATION

3.3 (Water Column Length) x 1.68 (Water Volume/ft) x 3 (No. Vols) = gals CALCULATED PURGE VOLUME

Total Purge Time: 4 min.

Recharge Rate: | Purge Rate: 6 gpm

17 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556 MPS / Hach / Horiba / Myron L

Time	/	Liters or (Gallons)	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1300	/	1 min No 1	7.4	18.8	—	739	—	32	
1301	/	5.5	7.1	19.4	—	751	—	81	
1302	/	11.0	7.1	19.5	—	739	—	111	
1303	/	16.5	7.1	19.4	Post 0.68	724	-79	109	
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Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tanks

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6/7/07 / 1320

Purging Equipment: Pump - Type: 3" GS | Bailer - Type: Disp. | Other:

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Diss. Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231 GW 24	1 x 500 mL NP Poly	CT	2163	
	1 x 500 mL HNO3 Poly			
	1 x 500 mL NaOH + Zn Poly			
	1 x 250 mL NP Poly			

QUALITY CONTROL SAMPLES

Duplicate Samples: 1 x 1 L NP Amber, 6 x 40 mL 1/2 L VOAs

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg 231 | Well No.: 2316W25
Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: DR | Sampled by: DR | Date: 6/7/17

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other
Well Total Depth (TD, ft. below TOC): 9.91
Depth to Water (WL, ft. below TOC): 4.75
Depth to free phase (FP, ft. below TOC):
Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp.
[ ] Normal [ ] Pump \ Type:
[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):
[ ] Near Bottom Depth (ft):
[ ] Other:

PURGE VOLUME CALCULATION

5.16 (Water Column Length) x — (Water Volume/ft) x — (No. Vols) = gals CALCULATED PURGE VOLUME

Total Purge Time: 10 min
Recharge Rate: —
Purge Rate: 0.5 gpm

4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556 / Hach / Horiba / Myron L

Time	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1016	—	7.0	13.9	Pre 0.18	1397 MS	—	11	clear
1019	1.5	6.9	14.0		1494	—	36	"
1022	3.0	6.9	14.0	—	1518	—	41	"
1025	4.5	6.9	14.0	Post 0.63	1583	Post -100	95	"

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tanks

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6/7/17 / 1035

Purging Equipment: Pump - Type: — Bailer - Type: Disp. Other:
Sample Filtered: Yes / No Filtered Sample Analysis: Diss. Metals (12)

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
2316W25	1 x 500 mL NP Poly	C+T	2163	
	1 x 50 mL HNO3 Poly			
	1 x 50 mL NaOH+2 ox Poly			
	1 x 250 mL NP Poly			

QUALITY CONTROL SAMPLES

1 x 1 L NP Amber
Duplicate Samples: 6 x 40 mL HCL vials

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg. 231 | Well No.: 231GW26

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 6/8/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 23.58

Depth to Water (WL, ft. below TOC): 7.31

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
(10)	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type 3" ES
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft) 8.0
[X] Near Bottom Depth (ft) 20.0
[ ] Other

PURGE VOLUME CALCULATION

16.27 (Water Column Length) x 1.68 (Water Volume/ft) x 3 (No. Vols) = 82 gals CALCULATED PURGE VOLUME

Total Purge Time: 15 min.

Recharge Rate: —

Purge Rate: 6 gpm

83 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556A / Hach / Horiba / Myron L

Time	/	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
801	/	Init.	6.1	10.7	—	727	—	38	clear
806	/	27.4	6.4	13.6	—	695	—	71	"
811	/	54.77	6.7	15.1	—	670	—	80	"
816	/	82.2	6.8	15.0	Post	662	Post	96	"
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Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tanks

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6/8/07 / 0825

Purging Equipment: Pump - Type 3" ES | Bailer - Type Disp. | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Diss. Metals (14)

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231GW26	1x500mL NP HCl Poly	CTT	2126	
	1x500mL HNO3 Poly			
	1x500mL NaOH+Zinc Poly			
	1x250mL NP Poly			

QUALITY CONTROL SAMPLES

Duplicate Samples: 1x1L NP Amber, 6x40mL HCl Vials

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg. 231 | Well No.: 231GW27
Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: DK | Sampled by: DK | Date: 6/8/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other
Well Total Depth (TD, ft. below TOC): 25.50
Depth to Water (WL, ft. below TOC): 10.87
Depth to free phase (FP, ft. below TOC):
Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
6	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type: 3" ES
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft): 12.0
[X] Near Bottom Depth (ft): 23.0
[ ] Other

PURGE VOLUME CALCULATION

14.63 (Water Column Length) x 1.68 (Water Volume/ft) x 3 (No. Vols) = 73.7 gals CALCULATED PURGE VOLUME

Total Purge Time:
Recharge Rate: —
Purge Rate: 6gpm

~~74~~ gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556 MPS / Hach / Horiba / Myron L

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND µS/cm	ORP (mV)	Turbidity (NTU)	Comments
0847	init.	7.4	12.3	—	652	—	41	clear
0851	24.6	7.1	12.7	—	639	—	88	"
0855	49.2	7.0	13.6	—	655	—	90	"
0859	73.7	6.9	13.8	Post 0.58	671	Post 60	107	"

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tanks

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6/8/07 / 0915

Purging Equipment: Pump - Type: 3" ES | Bailer - Type: Disp. | Other:
Sample Filtered: (Yes) / No | Filtered Sample Analysis: Diss. Metals (N4)

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231GW27	1x500mL NP Poly	CTI	2126	
	1x500mL HNO3 Poly FF			
	1x500mL Nitric Acid Poly			
	1x250mL NP Poly			

QUALITY CONTROL SAMPLES

Duplicate Samples: 1x 1L NP Amb-1
6x 40mL HCl Vials

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Building 231 | Well No.: 231GW28
Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: BP | Sampled by: BP | Date: 6-5-07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): --

Depth to Water (WL, ft. below TOC): 4.07

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: disp.
[ ] Normal [ ] Pump \ Type:
[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[X] Near top Depth (ft): 4.5'
[ ] Near Bottom Depth (ft):
[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length: ____ X Water Volume/ft: ____ X No. Vols: ____ = CALCULATED PURGE VOLUME: ____ gals

Total Purge Time: 9 min
Recharge Rate: ____ Purge Rate: 0.5 gpm

ACTUAL PURGE VOLUME: 2 gals

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron Ultra / Horiba Hybrid

Time	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1311	3 gals	6.89	19.7	0.15	677		41	
1314	1 gal	6.84	19.4		703		38	DTW=5.40
1317	2 gal	6.87	19.0	0.13	720	-100	36	DTW=5.58

Comments: ____ Purge water storage/disposal: [ ] Drummed onsite [X] Other: Baker Tank

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: 6-5-07 / 1320

Purging Equipment: Pump - Type: ____ Bailer - Type: disp Other: ____

Sample Filtered: (Yes) / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231GW28	3 x 500mL	CET	2160	
	1 x 250 mL			
	6 x 40 mL vials			
	1 x 1 L Amber			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Building 231 | Well No.: 231GW29
Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: S. Rose | Sampled by: Devon | Date: 6/6/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 17.45
Depth to Water (WL, ft. below TOC): 2.80
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
(10)	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: ~~Disp.~~ [X] Normal [X] Pump \ Type: 3" ES [ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft): 9.0
[ ] Near Bottom Depth (ft): 15.0
[ ] Other

PURGE VOLUME CALCULATION

14.65 (Water Column Length) x 1.68 (Water Volume/ft) x 3 (No. Vols) = ~~25.84~~ gals CALCULATED PURGE VOLUME

~~24~~ gals ACTUAL PURGE VOLUME

Total Purge Time:
Recharge Rate:
Purge Rate: 6 gpm

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 550 / Hach Turb. / Horiba / Myron L

Time	/	Liters or ~~Gallons~~	pH	Temp °C °F	DO (mg/L)	Sp. COND ~~mS/cm~~ µS	ORP (mV)	Turbidity (NTU)	Comments
1340	/	Int.	8.2	19.0	—	~~773~~	—	24	
1344	/	24.6	7.6	18.9	—	~~763~~	—	18	
1348	/	49.2	~~7.5~~	18.9	—	~~766~~	—	9	
1352	/	73.8	7.8	18.6	.38	~~764~~	91	11	
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Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other Tank onsite

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6/6/07 / 1400

Purging Equipment: Pump - Type: 3" ES | Bailer - Type: Disp. | Other:
Sample Filtered: (Yes) / No | Filtered Sample Analysis: Dis. Metals (14)

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231GW29	~~1~~ 500 ml Np Poly	CAT	7162	
	500 ml NaOH Poly			
	500 ml HNO3 Poly FF			
	250 ml Np Poly			

QUALITY CONTROL SAMPLES

6 HCL VOAs
1 1L Amber
x2 → Dup 060607 2A 1410

Duplicate Samples

Original Sample No.	Split ~~Duplicate~~ Sample No.
231GW29	*Same as above 231GW29CL @ 1420

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Building 231 | Well No.: 231GW21

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BP | Sampled by: BP | Date: 6-7-07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): --

Depth to Water (WL, ft. below TOC): 5.60

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type: pp1
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft): 8'
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 65 min

Recharge Rate: | Purge Rate: 300 ml/min

5L ~~gals~~ ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556, Hach Turbid

Time	/ Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND ~~mS/cm~~ µS/cm	ORP (mV)	Turbidity (NTU)	Comments
1109	/ Initial	6.76	21.1	0.44	1000	-98.2	22	Color
1112	/ 1L	6.65	21.1	0.38	992	-101.4	21	DTW=5.99
1115	/ 2L	6.62	21.1	0.41	987	-102.2	20	DTW=6.18
1118	/ 3L	6.61	21.1	0.29	977	-101.5	20	DTW=6.37
1121	/ 4L	6.60	21.1	0.26	972	-100.7	20	DTW=6.61
1124	/ 5L	6.60	21.2	0.28	971	-100.9	20	DTW=6.78
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							

Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6-7-07 / 1125

Purging Equipment: Pump - Type: pp1 | Bailer - Type: | Other:

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
~~6x40 mL~~ 231GW21	6x40 mL	CAT	2125	
~~3x500 mL~~	3x500 mL			
~~1x250 mL~~	1x250 mL			
~~1x1L Amber~~	1x1L Amber			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Building 231 | Well No.: 231GW22

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BF | Sampled by: BF | Date: 6-7-07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): --

Depth to Water (WL, ft. below TOC): 6.80

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type: peri
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft): 9'
[ ] Near Bottom Depth (ft):
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 15 min

Recharge Rate: | Purge Rate: 300mL/min

5L ~~gals~~ ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556, Hach turbid

Time / (Liters or Gallons)	pH	Temp °F	DO (mg/L)	Sp. COND mS (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1146 / Drift	6.85	20.4	0.49	1433	-117.6	14	
1149 / 1L	6.72	20.1	0.57	1444	-122.3	12	DTW: 7.23
1152 / 2L	6.69	20.1	0.35	1451	-122.4	11	
1155 / 3L	6.67	20.0	0.28	1453	-125.1	10	DTW: 7.53
1158 / 4L	6.67	20.1	0.26	1454	-126.6	10	
1201 / 5L	6.66	20.0	0.26	1453	-127.2	9	DTW: 7.73
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other: Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6-7-07 / 1205

Purging Equipment: Pump - Type: peri | Bailer - Type: | Other:

Sample Filtered: [X] Yes [ ] No | Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231GW22	6x40mL	CT	2125	
	3x500mL	"		
	1x250mL	"		
	1x1L Amb	"		

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Building 231 | Well No.: 231GW30

Project Number: 2493 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BF | Sampled by: BF | Date: 6-7-07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): --

Depth to Water (WL, ft. below TOC): 5.22

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type peri
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft) 8'
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 42 min

Recharge Rate: | Purge Rate: 300 mL/min

19 L gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556 / Horiba Turbidity

Time	/ Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND µS mS/cm	ORP (mV)	Turbidity (NTU)	Comments
1003	/ Initial	7.17	18.1	8.81	990	16.8	15	
1006	/ 1L	7.04	18.0	0.23	961	13.1	12	DTW: 5.59
1009	/ 2L	6.97	18.0	0.20	921	4.3	12	DTW: 5.78
1012	/ 3L	6.94	18.3	0.23	916	-31.9	12	DTW: 6.01
1015	/ 4L	6.94	18.1	0.35	921	-43.9	11	DTW: 6.16
1018	/ 5L	6.94	18.1	0.30	934	-59.1	11	DTW: 6.30
1021	/ 6L	6.95	18.0	0.30	945	-68.7	11	DTW: 6.49
1024	/ 7L	6.97	18.0	0.28	960	-81.5	11	DTW: 6.64
1027	/ 8L	7.01	18.0	0.98	968	-92.3	11	DTW: 6.88
1030	/ 9L	7.00	18.0	0.87	971	-90.2	12	DTW: 6.96
1033	/ 10L	7.00	18.0	0.41	976	-84.7	11	DTW: 7.05
1036	/ 11L	7.01	18.0	0.30	980	-98.9	11	DTW: 7.13
1039	/ 12L	7.03	18.0	0.24	984	-104.9	11	DTW: 7.21
1042	/ 13L	7.03	18.0	0.25	1000	-108.1	11	DTW: 7.29
1045	/ 14L	7.03	18.0	0.27	1014	-111.6	12	DTW: 7.35

Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6-7-07 / 1050

Purging Equipment: Pump - Type peri | Bailer - Type | Other

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231GW30	6X40mL	Cat	2125	
	3X500mL			
	1X250 mL			
	1X1L Amb			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Building 231 | Well No.: 231P201
Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: BP | Sampled by: BP | Date: 6-7-07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [ ] 4-inch [X] Other 1 inch

Well Total Depth (TD, ft. below TOC): 9.89
Depth to Water (WL, ft. below TOC): 6.63
Depth to free phase (FP, ft. below TOC):

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type Peri
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft) 10'
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate | Purge Rate 300 mL/min

0.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI 556, Hach turbid

Time / (Liters or Gallons)	pH	Temp °F	DO (mg/L)	Sp. COND mS/cm	ORP (mV)	Turbidity (NTU)	Comments
1227 / Initial	6.88	19.6	0.54	1584	-137.7	39	
1230 / 0.5L	6.80	19.6	0.70	1584	-141.2	40	DTW: 9.90
/	well Dewatered @ 0.5L						
/							
/							
1425	returned to fill VOAs & Amber						
/	DTW 6.24						
/			well dewatered after VOAs				
/			to return 6/8 for Amber Liter				
/							
0925 /	returned for Amber		DTW: 6.72 6/8/07				
/							
/							
/							
/							

Comments | Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 6-7-07 / 1430

Purging Equipment: Pump - Type: Peri | Bailer - Type | Other
Sample Filtered: [X] Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231P201 →	4 x 40 mL	CT	2126	Limited water
	3 x 40 mL			In Amber
	1 x 500 mL			
→	1 x 1 A Liter			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Building 231 | Well No.: 231 PZ02

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: P. Cornish | Date: 6/7/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [ ] 4-inch [X] Other 1"

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC): 6.04

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type Peri.
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate

0.5L gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI 556 / Hach Turb

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1334 / Int.	7.1	20.2	.81	2050 µS	-97	34	DTW= 6.04
/	★ Dewatered @ 1335.						
~~1535~~ 1435	returned to fill Vons						
/	DTW: 6.21						
/		well dewatered after Vocs					
/		to return 6/8 for Amber Liter					
/							
0915 / return for Ambers	DTW: 5.99' @ 0915 6/8/07						
/							
/							
/							
/							
/							
/							
/							

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other onsite Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6/7/07 / 1442

Purging Equipment: Pump - Type: Geotech Peri Pump. | Bailer - Type: | Other:

Sample Filtered: Yes / (No) | Filtered Sample Analysis: ~~Metals~~

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231PZ02	4x40ml Vox HCl	C+T	2126	limited water
	1x1L Amber NP			in Amber

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Building 231 | Well No.: 231PZ03

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: ~~P. Carrick~~ S. Rose | Sampled by: P. Carrick | Date: 6/7/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [ ] 4-inch [X] Other 1"

Well Total Depth (TD, ft. below TOC): 8.82

Depth to Water (WL, ft. below TOC): 5.72

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type Peri
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate 250 ml/min

3 L ~~gals~~ ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI 556 / Hach Turb.

Time	/	Liters or Gallons (circle)	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1352	/	Init.	6.7	20.6	.83	1081 µS	-62	9.95	DTW = 5.72
1355	/	750	6.8	20.7	.94	1113	-96	5.80	5.97
1358	/	1500	6.8	20.8	1.18	1121	-112	4.49	6.02
1401	/	2250	6.8	20.8	.87	1143	-128	3.94	6.08
1404	/	3000	6.8	20.8	.80	1145	-132	3.12	5.97
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other Tank Onsite

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6/7/07 / 1410

Purging Equipment: Pump - Type Geotech Peri | Bailer - Type | Other

Sample Filtered: (Yes) / No | Filtered Sample Analysis: ~~Diss~~ Dissolved Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231PZ03	1x500 ml ~~HDPE~~ poly	HNO3 CAT	2137	
	1x500 ml Poly NP			
	1x500 ml Zn + NaOH			
	1x 1L Amber NP			

QUALITY CONTROL SAMPLES

1x 250 poly NP

Duplicate Samples 6x40 ml VOA HCl

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area 231PZ104SR | Well No. 231PZ104

Project Number 2993 | Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By P.Cornish | Sampled by S.Rose, P.Cornish | Date 6/7/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [ ] 4-inch [X] Other 4"

Well Total Depth (TD, ft. below TOC): 9.79

Depth to Water (WL, ft. below TOC): 6.89

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [X] Bailer \ Type

[ ] Normal [X] Pump \ Type Peri.

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate 250 ml/min

3.8 L ~~gals~~ ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI 556 / Hach Turb.

Time	/	~~Liters~~ or ~~Gallons~~/ml	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1210	/	Int.	6.7	21.2	1.36	1210 MS	-94	162	DTW = 6.89
1213	/	750 ml	6.7	21.1	.87	1211	-114	71.5	DTW = 6.18
1216	/	1500 ml	6.7	20.7	.74	1186	-120.6	47.7	DTW = 6.68
1219	/	2250 ml	6.7	20.7	.67	1172	-124	31.5	DTW = 7.50
1222	/	3000 ml	6.8	20.8	.58	1156	-125	16.8	DTW = 6.42
1225	/	3750 ml	6.8	20.7	.51	1155	-128	16.1	DTW = 7.12
	/								
	/								*Gaseous ODor.
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other Tank Onsite

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled 6/7/07 / 1232

Purging Equipment: Pump - Type Geotech Peripump | Bailer - Type | Other

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Dissolved Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231PZ104	1x 500 ml NP Poly	CET	2127	
	1x 250 ml NP Poly			
	1x 500 ml HNO_3 poly			
	1x 500 ml Zn + NaOH Poly			

QUALITY CONTROL SAMPLES

Duplicate Samples 1x 1L NP Amber, 6x 40 ml HCL VOAS

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

BUILDING 1065/1027 AREA
APPENDIX SECTION A-11
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2007
Presidio of San Francisco, California

1.0 INTRODUCTION AND BACKGROUND

The Building 1065/1027 Area is located in the northeastern portion of the Presidio (Figure 1), between Gorgas Avenue to the north, General Kennedy Avenue to the east, Edie Road to the south, and a parking lot to the west. The site elevation ranges from approximately 13 to 26 feet above the PLLW datum (Montgomery Watson, 1997).

The Building 1065/1027 Area consists of Buildings 1027, 1040, 1047, 1062, 1063, the former location of Building 1065, and areas near these buildings (Figure A-11-1). Building operations formerly associated with the Building 1065/1027 Area include a power house/steam plant, laundry, warehouse, exchange service station, post exchange auto shed/maintenance/paint shop, and a garage (Montgomery Watson, 1997). A gas station shown on a 1921 map was also identified at a location just south of Building 1040 (Army, 1921).

Building 1027 formerly had a 10,000-gallon fuel oil underground storage tank (UST), which was removed in 1993. Following the tank removal, approximately 170 cubic yards of soil were removed and confirmation samples were collected. The analytical results of the confirmation samples indicated that TPHd was present in the soil at concentrations of 1.4 and 1.6 milligrams per kilogram (mg/kg). BTEX compounds were not detected in any soil confirmation samples (Montgomery Watson, 1996c).

During five sampling events conducted prior to May 1996, TPH was not detected in monitoring wells 1027MW01 and 1027MW03. Therefore, since May 1996, these wells have been utilized for elevation monitoring only. Beginning in September 1997, groundwater samples collected from the other site wells have been analyzed for TPH, BTEX, iron, manganese, general water chemistry, and natural attenuation parameters. Dissolved metals, general water chemistry, and natural attenuation parameters were eliminated from the groundwater monitoring program for the Building 1065/1027 Area in May 1999.

Summaries of dissolved oxygen, TPH, BTEX, MTBE, and dissolved metals results are presented in Tables A-11-1 through A-11-4.

An Interim Action Plan was prepared (MACTEC, 2003b) and was implemented by the Trust in November 2003. The interim action consisted of excavating and disposing of approximately 5,582 tons of petroleum impacted soil to Class II and Class III landfills for disposal. The extent

of the excavation was approximately 100 by 130 feet and ranged in depth from 8 to 12 feet (Figure A-11-1).

Four piezometers (1065PZ1A, 1065PZ1B, 1065MW9A, and 1065MW9B) were abandoned and one monitoring well (1065MW103A) was installed at the Building 1065/1027 Area on 30 May 2007, at the request of the Trust and in accordance with *Corrective Action Implementation Work Plan Building 1065 Area* (MACTEC, 2007c). Monitoring well 1065MW103A was subsequently developed in accordance with SOPs outlined in the FSP. Monitoring well 1065MW103A was added to the groundwater monitoring program during the Second Quarter 2007.

2.0 SITE DESCRIPTION AND GEOLOGY

The Building 1065/1027 Area is located in the Northeastern Groundwater Area of the Marina Groundwater Basin (Figure 1). Results of a previous site investigation conducted at the Building 1065/1027 Area indicate that units, which had previously been identified as the shallow/intermediate, intermediate, and deep groundwater zones, appear to be in hydraulic connection. These units are therefore considered to be one hydrogeologic unit called the intermediate groundwater zone. Data presented in the *Interim Data Report, Building 1065 Area* indicate that there does not appear to be a continuous aquitard separating the shallow/intermediate sand and intermediate sand or an aquitard separating what was formerly identified as the "intermediate" and "deep" sand units (now referred to as "upper intermediate sand" and "lower intermediate sand") (MACTEC, 2003a). The shallow groundwater zone consists of saturated portions of the fill and, where present, the shallow sand. The intermediate zone consists of the intermediate/shallow sand, upper intermediate sand and lower intermediate sand (identified in previous reports as deep sand). Groundwater levels within wells screened in the intermediate sand unit indicate that it is confined to semi-confined. Comparison of water levels in adjacent shallow zone and intermediate zone well pairs shows that there is an upward vertical gradient between the intermediate and shallow groundwater zones in the northern and central portions of the site (MACTEC, 2003a). The shallow zone extends from approximately 6 to 12 feet bgs, and the intermediate zone extends from approximately 17 to 29 feet bgs. The depth of the deep zone was not defined during the Site Investigation (SI) conducted in 1997 (IT, 1997b). Groundwater has been reported to follow the general northward topographic trend towards the San Francisco Bay (Montgomery Watson, 1997).

Subsurface materials beneath the Building 1065/1027 Area consist of artificial fill, clayey silty sands, clayey silt, and sand. Building 1027 is underlain by silty sand to an approximate depth of 15 feet bgs. A brown, medium dense clayey sand is located beneath the silty sand (Montgomery Watson, 1996c). Fill material within the Building 1065/1027 Area ranges from 1 to 5.5 feet in thickness. The fill is underlain by native clayey silty sand with an average thickness of 3 feet. The clayey silty sand is underlain by a 9-foot-thick clayey silt (Bay Mud) deposit. Beneath the Bay Mud, a sand layer is present to a depth of approximately 25 feet bgs in some areas and is

underlain by a second layer of Bay Mud to depths of approximately 29 feet bgs. Dense sands underlie the second Bay Mud horizon (IT, 1997b, MACTEC, 2003a).

3.0 CORRECTIVE ACTION PLAN BUILDING 1065 AREA

The *Final Corrective Action Plan, Building 1065 Area* (CAP) (MACTEC, 2007d) was submitted to all stakeholders for public review on 24 January 2007. The following chemicals were identified by the CAP as chemicals of concern in soil: TPHg, TPHd, TPHfo, VOCs (benzene, ethylbenzene, 2-hexanone, and toluene), PAHs (benzo(a)pyrene), and metals (arsenic, cadmium, lead and zinc). Additionally, the following chemicals were identified by the CAP as chemicals of concern in groundwater: TPHg, benzene, and arsenic.

Based on cleanup level exceedances, three Soil Remedial Units (RUs), Soil RUs A, B, and C, and one Groundwater RU, RU A, were identified in the CAP. The Soil RUs are described in more detail in the CAP. The Groundwater RU is located in the same area as Soil RU A and is believed to be associated with Soil RU A, therefore, these two RUs have been combined. The Groundwater RU A is comprised of shallow groundwater between 6 and 12 feet bgs beneath and adjacent to the south wall of Building 1063. The groundwater in this area contains TPHg and benzene above their applicable CAP cleanup levels (MACTEC, 2007d).

The CAP recommends *Excavation and Offsite Disposal of Soil, Application of In Situ Oxygen Release Product as Necessary, Groundwater Monitoring* as the preferred corrective action alternative for Soil and Groundwater RU A.

Groundwater sampling at the Building 1065 Area will be conducted in accordance with the CAP following CAP approval and implementation. Cleanup levels proposed in the CAP are presented in Tables A-11-3 and A-11-6.

4.0 GROUNDWATER MONITORING

Twenty-two monitoring wells and piezometers were sampled during the First Quarter 2007, in accordance with Table 1A. Piezometer 1065PZ6A was not sampled as scheduled due to an obstruction covering the location.

Four wells were abandoned (1065PZ1A, 1065PZ1B, 1065MW9A, and 1065MW9B) and one new well was installed (1065MW103A), prior to the Second Quarter 2007, in accordance with the Building 1065 Area Implementation Work Plan. The final CAP for the Building 1065 Area was approved in January 2007. The CAP implementation is scheduled to begin in 2007. New monitoring well 1065MW103A was the only well sampled during the Second Quarter 2007, in accordance with Table 1B.

Monitoring wells and piezometers associated with the Building 1065/1027 Area are screened within the shallow unconfined, and the intermediate semi-confined zones. During the First

Quarter 2007 groundwater elevations were measured in 24 site piezometers and monitoring wells (Table 1A). During the Second Quarter 2007 groundwater elevations were measured in 21 site piezometers and monitoring wells (Table 1B).

4.1 Groundwater-Level Measurements and Interpretation

Groundwater elevation measurements were collected on 26 February and 4 June 2007. A list of site wells and piezometers monitored and corresponding groundwater levels is provided in Table A-11-7. Piezometer 1065PZ6A was not measured during the First and Second Quarters 2007 because it could not be located. Water level meters were calibrated on 26 February and 4 June 2007. The calibration logs can be found in Appendix B. Groundwater elevation field forms can be found in Appendix C.

4.1.1 Shallow Groundwater

During the First Quarter 2007, shallow groundwater elevations in the Building 1065 Area ranged from 7.36 to 15.23 feet above PLLW in monitoring wells 1065MW101A and 1047MW101, respectively (Figure A-11-2). During the Second Quarter 2007, shallow groundwater elevations ranged from 7.48 to 14.88 feet above PLLW in monitoring wells 1065MW101A and 1047MW101, respectively (Figure A-11-3). Groundwater elevation measurements at the Building 1065/1027 Area shallow aquifer monitoring wells were evaluated with measurements collected at Building 231/207 and Fill Site 6 shallow monitoring wells to better understand groundwater flow direction and gradients in this area. Groundwater elevation data for these adjacent sites can be found in Tables A-10-7 and A-3-6.

The shallow aquifer groundwater flow direction in the Building 1065/1027 Area was generally north to northeast towards the San Francisco Bay during both the First and Second Quarters 2007, which follows the general topographic trend (Figures A-11-2 and A-11-3). The shallow groundwater gradient in this area was calculated to be approximately 0.020 feet per foot during the First Quarter 2007, and approximately 0.021 feet per foot during the Second Quarter 2007. The overall groundwater gradients and flow directions observed during the First and Second Quarters 2007 are consistent with gradients and flow directions observed prior to the construction dewatering activities that occurred during the adjacent letterman hospital redevelopment in 2003.

4.1.2 Intermediate Groundwater

During the First Quarter 2007, intermediate groundwater elevations ranged from 11.80 to 15.36 feet above PLLW in piezometers 1065PZ1B and 1065PZ6B, respectively (Figure A-11-4). During the Second Quarter 2007, intermediate groundwater elevations ranged from 11.90 to 14.95 feet above PLLW in piezometers 1065PZ4B and 1065PZ6B, respectively (Figure A-11-5).

Groundwater elevation measurements from the Building 1065/1027 Area intermediate monitoring wells were evaluated with measurements collected from Building 231/207 intermediate aquifer monitoring wells to better understand groundwater flow direction and gradients in this area. Monitoring well data for the Building 231/207 Area site can be found in Table A-10-3. During the First and Second Quarters 2007, the intermediate aquifer groundwater flow direction in the Building 231/207 and Building 1065/1027 Area was generally to the north on the eastern portion of the site and northwest on the western portion of the site. Groundwater beneath the Building 1065/1027 Area flows in a northerly direction towards the San Francisco Bay following the general topographic trend (Figures A-11-4 and A-11-5). During the First and Second Quarters 2007, the average intermediate groundwater gradient in the vicinity of Building 1065/1027 Area was estimated to be approximately 0.006 and 0.04 feet per foot, respectively. Groundwater gradients and flow directions remain consistent with previous findings at the site.

Groundwater elevations, gradients, and flow directions are consistent with historical values and interpretations. No significant trends or observations were identified at the Building 1065/1027 Area during the First and Second Quarters 2007. Groundwater monitoring well locations are illustrated on Figure A-11-1.

Groundwater elevation maps for the intermediate zone are shown in Figures A-11-4 and A-11-5. Groundwater elevations and flow directions are similar to those observed previously at the Building 1065/1027 Area.

4.2 Groundwater Purging and Sampling

During the First Quarter 2007, all Building 1065/1027 Area piezometers and monitoring wells proposed for sampling, except 1065PZ6A, were purged and sampled between 27 February and 7 March 2007. Piezometer 1065PZ6A could not be located. During the Second Quarter 2007, new monitoring well 1065MW103A was the only well sampled. Monitoring well 1065MW103A was purged and sampled on 7 June 2007. All piezometers and wells were purged and sampled using the methods shown in Tables 1A and 1B and in accordance with procedures described in the FSP (Treadwell & Rollo, 2001a).

Purge equipment, purging volumes, purge water general water chemistry parameters, and sampling equipment for each piezometer and monitoring well are described in the purge records at the conclusion of this section. Purge water was stored for future disposal in a 2,800-gallon aboveground polyethylene storage tank, located at the Central Magazine.

4.3 Groundwater Analytical Program

All groundwater samples collected were submitted to the project laboratory for the analyses shown in Tables 1A and 1B of the main text. The appropriate sampling containers, preservatives, and maximum holding times for each analytical method are shown in Table 5.

Sample containers used for each well are described in the purge records located at the conclusion of this Appendix A subsection.

QA/QC samples were collected as part of this program. Section 6.2 of the main text discusses the QA/QC sampling and analysis performed for the First and Second Quarters 2007.

5.0 GROUNDWATER ANALYTICAL RESULTS

Groundwater samples collected during the First and Second Quarters 2007 at the Building 1065 Area were analyzed for all or a combination of general chemistry parameters, dissolved metals, TDS, dissolved oxygen, VOCs, BTEX, MTBE, total sulfides, TPHg, TPHd, TPHfo, and/or TPHss. Specific lists of analyses for monitoring wells and piezometers are detailed in Tables 1A and 1B. Additionally, redox (pH, ORP and temperature) parameters were measured within wells sampled during the First and Second Quarters 2007.

The TPHfo standard currently being used is a TPH as motor oil standard, as defined by the Presidio QAPP, with a carbon range of C_{24}-C_{36}. Section 5.4.3.1 in the main report discusses the data compatibility issues associated with TPH analyses.

5.1 Dissolved Oxygen

Dissolved oxygen measurements are presented in Table A-11-1. The dissolved oxygen measurements ranged from 0.21 at 1065MW9B and 1047MW101 to 4.80 mg/L at 1065MW10B during the First Quarter 2007. Dissolved oxygen was only measured in monitoring well 1065MW103A at a concentration of 1.48 mg/L during the Second Quarter 2007.

During the First Quarter 2007, dissolved oxygen was measured at new low concentrations of 0.32 mg/L within monitoring well 1065MW11A, 0.27 mg/L within monitoring well 1065MW11B, 1.19 mg/L within piezometer 1065PZ3A, 0.29 mg/L within piezometer 1065PZ6B, and 0.21 mg/L within monitoring wells 1065MW9B and 1047MW101. Dissolved oxygen was measured at a new high concentration of 4.80 mg/L within monitoring well 1065MW10B. The dissolved oxygen concentrations within the remaining Building 1065/1027 Area monitoring wells and piezometers were generally within the range of historical concentrations.

5.2 General Chemistry Results

General chemistry results are presented in Table A-11-2. The following table summarizes new high and low general chemistry analytical results for the First and Second Quarters 2007 within the Building 1065 Area when compared to historical data, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the date sampling commenced, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2007		Units
			Minimum	Maximum	Minimum	Maximum	
General Chemistry							
1047MW101	Chloride	6/7	2.9	8.9	--	11	mg/L
	N as Nitrate	7/7	0.111	0.13	--	0.28	mg/L
	Sulfate	7/7	2	5.1	--	6.6	mg/L
1065MW102	Fluoride	8/8	0.15	0.54	0.1	--	mg/L
1065MW10A	Chloride	3/3	55	58	51	--	mg/L
	Sulfate	3/3	45	46	--	48	mg/L
1065MW10B	Alkalinity, Total	3/3	230	240	--	270	mg/L
	Bicarbonate	3/3	230	240	--	270	mg/L
	Chloride	3/3	51	55	--	59	mg/L
	N as Nitrate	3/3	4.5	4.9	--	5.3	mg/L
	Sulfate	3/3	65	67	--	78	mg/L
1065MW11A	N as Nitrate	3/3	2.8	2.9	--	4.7	mg/L
1065MW11B	Alkalinity, Total	3/3	190	250	--	270	mg/L
	Bicarbonate	3/3	190	250	--	270	mg/L
	Chloride	3/3	72	77	55	--	mg/L
	N as Nitrate	3/3	3.6	3.8	--	4.3	mg/L
	Sulfate	3/3	78	82	--	83	mg/L
1065MW9A	Alkalinity, Total	19/19	410	460	--	490	mg/L
	Bicarbonate	19/19	410	460	--	490	mg/L
1065PZ2A	Alkalinity, Total	17/17	270	385	220	--	mg/L
	Bicarbonate	17/17	270	385	220	--	mg/L
	N as Nitrate	7/17	<0.01	1.1	--	1.2	mg/L
	Sulfate	14/17	<0.5	35	--	39	mg/L
1065PZ2B	N as Nitrite	2/3	<0.05	0.06	--	0.08	mg/L
1065PZ3A	Fluoride	5/5	0.26	0.39	0.16	--	mg/L
1065PZ3B	Alkalinity, Total	4/4	250	270	--	300	mg/L
1065PZ4B	Alkalinity, Total	3/3	270	280	--	300	mg/L
	Bicarbonate	10/10	210	280	--	300	mg/L
1065PZ6B	N as Nitrate	10/10	3.6	5.58	3.5	--	mg/L
1065PZ7B	Chloride	10/10	30	120	--	150	mg/L
	N as Nitrate	10/10	2.5	3.8	--	4.8	mg/L
	Sulfate	10/10	57	110	--	190	mg/L

The majority of the new high and low concentrations detected during the First and Second Quarters 2007 can be attributed to natural fluctuations and the relatively low number of sampling events for general chemistry and are, therefore, not considered significant.

Significant new high and low general chemistry results are discussed below.

- Fluoride was not detected above the laboratory reporting limit for the first time during the First Quarter 2007 within monitoring well 1065MW11A.

Monitoring well 1065MW103A was installed after the First Quarter 2007, and was sampled for the first time in the Second Quarter 2007. Therefore, new high and low general chemistry results can not yet be established.

5.3 TPH Results

All groundwater samples collected from the Building 1065 Area were analyzed for TPHg, TPHd, and TPHfo during the First Quarter 2007, except for the samples from monitoring well 1047MW101. Monitoring well 1047MW101 was only analyzed for TPHg and TPHss during the First Quarter 2007, as proposed on Tables 1A and 1B. Monitoring well 1065MW103A was the only well sampled in the Second Quarter 2007 and was only analyzed for TPHg. TPH results are presented in Table A-11-3. Shallow groundwater and TPHg results are presented on Figure A-11-2 and A-11-3..

TPHg was detected in piezometer 1065PZ1A during the First Quarter 2007 at a concentration of 140 µg/L, which is within the range of historical concentrations detected in this well, and below the CAP-specified cleanup level (Figure A-11-2). TPHg was not detected within any other Building 1065 Area monitoring well or piezometer during the First Quarter 2007. TPHg was not detected within monitoring well 1065MW103A during the Second Quarter 2007 (Figure A-11-3).

TPHd and TPHfo were not detected within any Building 1065 Area monitoring wells or piezometers during the First Quarter 2007. TPHss was not detected within monitoring well 1047MW101 during the First Quarter 2007.

5.4 Dissolved Metals and TDS Results

Dissolved metals results are presented in Table A-11-4. All Building 1065/1027 Area monitoring well and piezometer samples collected were analyzed for the 15 dissolved metals list defined in Table 1A during the First Quarter 2007. Monitoring well 1065MW103A was the only well sampled in the Second Quarter 2007 and was analyzed for 4 dissolved metals.

The table below summarizes new high and low dissolved metal and TDS analytical results from the First and Second Quarters 2007 when compared to historical data, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the date of commencement of sampling, and the number of duplicate analyses performed. Only the new high or new low data are shown.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2007		Units
			Minimum	Maximum	Minimum	Maximum	
Metals							
1047MW101	Antimony	1/7	<1	<2	0.86	--	µg/L
	Arsenic	1/10	<2	<5	1.1	--	µg/L
	Calcium	7/7	4,300	5,700	--	8,500	µg/L
	Lead	1/10	<1	<3	0.05	--	µg/L
	Magnesium	7/7	4,500	5,200	--	6,800	µg/L
	Nickel	1/10	<2	<20	1.7	--	µg/L
	Sodium	5/7	<500	<5,000	--	7,500	µg/L
	Total Dissolved Solids	9/10	110	350	<10	--	mg/L
1065MW102	Total Dissolved Solids	8/8	170	680	140	--	mg/L
1065MW10A	Calcium	3/3	29,000	31,000	28,000	--	µg/L
	Iron	3/3	13,000	16,000	12,000	--	µg/L
	Magnesium	3/3	35,000	36,000	34,000	--	µg/L
	Manganese	3/3	520	560	360	--	µg/L
	Potassium	3/3	1,900	2,000	1,700	--	µg/L
	Sodium	3/3	57,000	60,000	53,000	--	µg/L
1065MW10B	Chromium	4/4	26	37	--	40	µg/L
	Magnesium	3/3	47,000	48,000	--	50,000	µg/L
	Sodium	3/3	57,000	60,000	55,000	--	µg/L
	Total Dissolved Solids	4/4	470	520	--	530	mg/L
1065MW11B	Chromium	4/4	38	40	--	41	µg/L
	Magnesium	3/3	46,000	47,000	--	48,000	µg/L
1065MW9B	Chromium	17/17	29	38	--	40	µg/L
1065PZ2A	Arsenic	19/19	6.8	25	6.2	--	µg/L
	Calcium	10/10	22,000	32,000	19,000	--	µg/L
	Magnesium	10/10	38,000	53,000	29,000	--	µg/L
	Potassium	10/10	740	1,200	--	3,600	µg/L
	Total Dissolved Solids	21/21	380	3,720	350	--	mg/L
1065PZ2B	Calcium	3/3	22,000	23,000	--	25,000	µg/L
	Magnesium	3/3	31,000	35,000	--	37,000	µg/L
	Manganese	1/3	<10	<10	--	10	µg/L
	Sodium	3/3	46,000	47,000	45,000	--	µg/L
1065PZ3A	Copper	4/7	1.3	<10	<1	--	µg/L
	Manganese	1/5	<10	<10	--	14	µg/L
	Potassium	4/5	1,700	<5,000	1,300	--	µg/L
1065PZ3B	Calcium	4/4	34,000	35,000	--	37,000	µg/L
	Chromium	5/5	29	34	27	--	µg/L
	Magnesium	4/4	47,000	51,000	46,000	--	µg/L
	Sodium	4/4	63,000	67,000	62,000	--	µg/L
1065PZ4A	Iron	16/16	12,800	30,000	--	37,000	µg/L
1065PZ4B	Calcium	3/3	24,000	25,000	--	27,000	µg/L
	Chromium	4/4	24	25	--	31	µg/L
1065PZ5AR	Magnesium	9/9	77,000	89,000	75,000	--	µg/L
	Total Dissolved Solids	12/12	730	1,170	690	--	µg/L

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2007		Units
			Minimum	Maximum	Minimum	Maximum	
Metals							
1065PZ5B	Sodium	3/3	58,000	60,000	54,000	--	µg/L
1065PZ6B	Chromium	4/4	38	42	--	43	µg/L
	Magnesium	3/3	51,000	54,000	47,000	--	µg/L
	Potassium	3/3	530	700	--	990	µg/L
	Sodium	3/3	59,000	68,000	57,000	--	µg/L
1065PZ7A	Calcium	4/4	44,000	45,000	--	51,000	µg/L
	Magnesium	4/4	54,000	81,000	--	92,000	µg/L
	Manganese	2/4	<10	<10	--	18	µg/L
	Total Dissolved Solids	12/12	358	540	--	650	µg/L
1065PZ7B	Calcium	3/3	42,000	43,000	--	64,000	µg/L
	Sodium	3/3	40,000	74,000	--	94,000	µg/L
	Total Dissolved Solids	11/11	434	650	--	840	mg/L

The majority of the dissolved metal concentrations measured during the First and Second Quarters 2007 are within historical ranges. Significant dissolved metals results are discussed below.

- Dissolved arsenic was detected at concentrations exceeding its CAP-specified cleanup level (10 µg/L) within 1065PZ1A, 1065PZ4A, 1065PZ5AR, and 1065MW101A during the First Quarter 2007. Dissolved arsenic was not detected above laboratory limits in monitoring well 1065MW103A during the Second Quarter 2007.
- Dissolved antimony, arsenic, lead, and nickel were detected for the first time in the QC sample collected from 1047MW101, during the First Quarter 2007. Antimony, arsenic, lead, and nickel were not detected within the primary or duplicate samples collected from 1047MW101. However, the QC laboratory's reporting limits for these metals were significantly lower than the primary laboratory's reporting limits.
- Manganese was detected for the first time during the First Quarter 2007 within piezometers 1065PZ2B, 1065PZ3A, and 1065PZ7A.
- Potassium was detected at a new high concentration of 3,600 µg/L within 1065PZ2A, during the First Quarter 2007. This concentration is three times higher than the previous high concentration for this location.

The remaining dissolved metals concentrations were either within historical ranges or slightly above or below previous concentrations and do not appear to be significant. Arsenic and antimony are the only metals with CAP-specified cleanup levels at the Building 1065 Area.

Monitoring well 1065MW103A was installed after the First Quarter 2007 and was sampled for the first time in the Second Quarter 2007. Thus, new high and low concentrations can not yet be established.

5.5 VOCs, BTEX and MTBE Results

During the First Quarters 2007, piezometers 1065PZ1A and 1065PZ1B and monitoring wells 1065MW101, 1065MW102 and 1047MW101 were analyzed for VOCs and MTBE. The remaining Building 1065 Area piezometers and monitoring wells were analyzed for BTEX and MTBE. VOC, BTEX, and MTBE analytical results are presented in Table A-11-3. Monitoring well 1065MW103A was the only well sampled during the Second Quarter 2007 and was sampled for BTEX and MTBE.

The table below summarizes new high and low VOC, BTEX, and MTBE analytical results from the First and Second Quarters 2007 when compared to historical data, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the date of commencement of sampling, and the number of duplicate analyses performed. Only the new high or new low data are shown.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2007		Units
			Minimum	Maximum	Minimum	Maximum	
Volatile Organic Compounds							
1065PZ4B	MTBE	1/16	<2	<2	--	3	µg/L
1065PZ5B	MTBE	1/16	<2	<2	--	2.6	µg/L
1065PZ7B	MTBE	1/15	<2	<2	--	3.3	µg/L

During the First Quarter 2007, MTBE was detected for the first time within samples from 1065PZ4B (3 µg/L), 1065PZ5B (2.6 µg/L), and 1065PZ7B (3.3 µg/L). MTBE was detected at 10 additional locations at concentrations within historical bounds. No detections of MTBE exceeded the CAP cleanup level of 13 µg/L.

MTBE was detected in equipment rinsate blank 1065MW10ARB1065MW10B at 5.1 µg/L. The results for MTBE in the associated samples (1065MW10A and 1065MW10B) were changed to non-detect (U) because the detected concentrations were less than five times the amount detected in the equipment rinsate blank.

MTBE was also detected in equipment blank 1065PZ6BRB1065MW9A at 4.7 µg/L. The results for MTBE in the associated samples (1065PZ6B and 1065MW9A) were changed to non-detect (U) because the detected values were less than five times the concentration detected in the equipment rinsate blank.

BTEX and MTBE analysis through the Second Quarter 2007 have been run by EPA Method 8020/8021 at the Building 1065 Area. This method has a potential for false detections and

will be changed to EPA Method 8260B beginning in the Third Quarter 2007, as discussed in Section 5.4.3.5.

Additionally, MTBE has sporadically been detected across the Presidio at varying concentrations. These sporadic detections may be associated with false detections associated with EPA Method 8020/8021. Beginning with the Third Quarter 2007, BTEX/MTBE will be analyzed by EPA Method 8260B and these results will be evaluated against historical 8020/8021data.

Benzene was detected at a concentration of 0.07 µg/L within piezometer 1065PZ1A during the First Quarter 2007, below the CAP cleanup level of 1.0 µg/L.

No other VOC, MTBE or BTEX compounds were detected during the First Quarter 2007.

6.0 GROUNDWATER REDOX EVALUATION

Several parameters were measured in the field and in the laboratory to help determine the redox state of groundwater at the Building 1065/1027 Area.

The Trust is has prepared a *Technical Memorandum: Arsenic and Other Metals in Groundwater at Three Corrective Action Sites, Presidio of San Francisco, California* (MACTEC, 2006). This technical memorandum discusses the reduction/oxidation (redox) state of groundwater at the Building 1065/1027 Area using data collected as part of the Presidio-wide Groundwater Monitoring Program. Groundwater redox parameter results collected during the First and Second Quarters 2007 were generally within the range of previously detected concentrations at the Building 1065/1027 Area.

Building 1065/1027 Area monitoring wells sampled during the First and Second Quarters 2007 had modified redox diagrams developed. The redox diagrams were generated for shallow and intermediate groundwater using the Sequence™ program and concentrations of dissolved oxygen, nitrate, manganese, iron, sulfate and methane and are plotted with dissolved arsenic concentrations on Figures A-11-6 through A-11-7, respectively. Each redox diagram consists of multiple axes, with each individual axis representing one of the above analytes. Each redox diagram is associated with one monitoring well location. The relative shape of each redox diagram represents an approximation of the redox state within the well studied. In general, the larger the polygon the more oxidizing the groundwater environment is at the well location, conversely, the smaller the polygon the more reducing the environment.

7.0 CONCLUSIONS AND RECOMMENDATIONS

TPH and VOCs were not detected above CAP-specified cleanup levels in any samples collected during the First or Second Quarters 2007.

Dissolved arsenic continues to be detected at concentrations exceeding the CAP-specified cleanup level (10 µg/L) within 1065PZ1A, 1065PZ4A, 1065PZ5AR, and 1065MW101A.

Four wells were abandoned (1065PZ1A, 1065PZ1B, 1065MW9A, and 1065MW9B) and one new well was installed (1065MW103A), prior to the Second Quarter 2007, in accordance with the *Corrective Action Implementation Work Plan Building 1065 Area* (MACTEC, 2007c). Monitoring well 1065MW103A was installed after the First Quarter 2007, and was sampled for the first time in the Second Quarter 2007. No significant detections were observed in 1065MW103A during the Second Quarter 2007.

The final CAP for the Building 1065 Area was approved in January 2007. Construction based on the CAP is anticipated to begin during summer 2007. Monitoring will continue following remediation in accordance with the Final CAP.

Table A-11-1
Summary of Dissolved Oxygen Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065PZ1A (shallow)	03/01/07	0.71	-96.00	6.96	12.48
	12/05/06	0.75	-82	7.02	15.29
	08/17/06	0.32	-106.40	6.87	20.27
	05/24/06	0.38	-124.1	7	17.68
	03/14/06	1.23	3.5	6.88	12.67
	12/01/05	0.7	NR	NR	NR
	08/31/05	0.5	NR	NR	NR
	06/02/05	0.29	NR	NR	NR
	03/29/05	0.4	NR	NR	NR
	12/17/04	0.9	NR	NR	NR
	08/11/04	0.1	NR	NR	NR
	05/26/04	0.2	NR	NR	NR
	03/19/04	0.2	NR	NR	NR
	12/05/03	0.3	NR	NR	NR
	08/19/03	0.14	NR	NR	NR
	06/11/03	0.5	NR	NR	NR
	03/17/03	0.09	NR	NR	NR
	12/06/02	0.13	NR	NR	NR
	09/05/02	0.79	NR	NR	NR
	05/30/02	1.1	NR	NR	NR
	03/07/02	0.53	NR	NR	NR
	11/29/01	0.17	NR	NR	NR
	09/06/01	0.28	NR	NR	NR
	05/11/01	0.36	NR	NR	NR
	05/27/99	6.83 (J25)	NR	NR	NR
	03/08/99	0.56	NR	NR	NR
	11/30/98	2.98	NR	NR	NR
	08/26/98	1.75	NR	NR	NR
	06/10/98	1.31	NR	NR	NR
	03/16/98	2.99	NR	NR	NR
	12/18/97	0.61	NR	NR	NR
	09/17/97	0.87	NR	NR	NR
1065PZ1B (intermediate)	03/07/07	0.36	-39	7.53	15.80
	12/05/06	1.21	211	6.82	14.8
	08/15/06	1.97	-33	6.90	17.20
	05/24/06	2.7	2.2	7.68	18.13
	03/07/06	0.05	-0.2	7.7	16.9
	11/29/05	0.91	NR	NR	NR
	08/30/05	0.7	NR	NR	NR
	05/24/05	0.7	NR	NR	NR
	04/05/05	0.9	NR	NR	NR
	12/17/04	0.7	NR	NR	NR
	08/13/04	0.8	NR	NR	NR
	05/27/04	0.56	NR	NR	NR
	03/10/04	1	NR	NR	NR
	12/03/03	0.9	NR	NR	NR
	08/13/03	1	NR	NR	NR
	06/03/03	1	NR	NR	NR
	03/17/03	0.2	NR	NR	NR
	12/09/02	0.7	NR	NR	NR
	09/03/02	0.7	NR	NR	NR
	06/03/02	1.1	NR	NR	NR
	03/13/02	0.8	NR	NR	NR
	12/03/01	4	NR	NR	NR

Table A-11-1
Summary of Dissolved Oxygen Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065PZ1B (intermediate)	09/05/01	0.6	NR	NR	NR
	05/16/01	3.22	NR	NR	NR
	05/27/99	0.59	NR	NR	NR
	03/08/99	0.19	NR	NR	NR
	11/30/98	0.21	NR	NR	NR
	08/26/98	0.16	NR	NR	NR
	06/10/98	0.14	NR	NR	NR
	03/16/98	0.51	NR	NR	NR
	12/18/97	0.29	NR	NR	NR
	09/17/97	0.6	NR	NR	NR
1065PZ2A (shallow)	03/01/07	0.43	-75.4	6.52	14.66
	12/06/06	0.52	-123.7	6.91	16.65
	08/17/06	0.24	-108.8	6.81	23.28
	05/24/06	0.14	-116.8	7.12	19.66
	03/13/06	0.43	-104.1	7.02	15.75
	12/01/05	0.4	NR	NR	NR
	08/30/05	0.3	NR	NR	NR
	05/24/05	0.2	NR	NR	NR
	04/01/05	0.2	NR	NR	NR
	12/15/04	0.2	NR	NR	NR
	08/11/04	0.1	NR	NR	NR
	05/25/04	0.1	NR	NR	NR
	03/15/04	0.2	NR	NR	NR
	12/05/03	0.15	NR	NR	NR
	08/19/03	0.2	NR	NR	NR
	06/04/03	0.2	NR	NR	NR
	03/17/03	0.06	NR	NR	NR
	12/05/02	0.1	NR	NR	NR
	09/05/02	0.52	NR	NR	NR
	05/29/02	1.1	NR	NR	NR
	03/07/02	0.11	NR	NR	NR
	11/29/01	0.18	NR	NR	NR
	09/05/01	0.38	NR	NR	NR
	05/11/01	0.25	NR	NR	NR
	05/25/99	6.78 (J25)	NR	NR	NR
	03/03/99	0.79	NR	NR	NR
	11/24/98	1.02 (J25)	NR	NR	NR
	08/25/98	0.34	NR	NR	NR
	06/09/98	0.39	NR	NR	NR
	03/12/98	1.02	NR	NR	NR
	12/17/97	0.47	NR	NR	NR
	09/16/97	1	NR	NR	NR
1065PZ2B (intermediate)	3/6/2007	0.53	206.00	7.06	17.80
	03/07/06	0.12	-0.9	7.25	17.9
	04/05/05	0.9	NR	NR	NR
	03/10/04	0.23	NR	NR	NR
	12/03/03	1	NR	NR	NR
	08/13/03	0.9	NR	NR	NR
	06/06/03	0.97	NR	NR	NR
	03/17/03	0.4	NR	NR	NR

Table A-11-1
Summary of Dissolved Oxygen Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065PZ2B (intermediate)	12/09/02	0.8	NR	NR	NR
	09/04/02	0.8	NR	NR	NR
	06/03/02	1.1	NR	NR	NR
	03/13/02	0.6	NR	NR	NR
	12/04/01	1.5	NR	NR	NR
	09/05/01	0.7	NR	NR	NR
	05/16/01	5.82	NR	NR	NR
	05/25/99	1.87	NR	NR	NR
	03/03/99	0.77	NR	NR	NR
	11/24/98	0.61	NR	NR	NR
	08/25/98	0.53	NR	NR	NR
	06/09/98	0.53	NR	NR	NR
	03/12/98	0.59	NR	NR	NR
	12/17/97	0.71	NR	NR	NR
	09/16/97	0.31	NR	NR	NR
1065PZ3A (shallow)	03/01/07	1.19	189.10	6.69	11.83
	03/13/06	1.77	223.1	6.87	14.93
	04/05/05	3.4	NR	NR	NR
	03/15/04	3.8	NR	NR	NR
	12/08/03	NM	NR	NR	NR
	08/19/03	NM	NR	NR	NR
	06/02/03	NM	NR	NR	NR
	03/14/03	NM	NR	NR	NR
	12/05/02	3.7	NR	NR	NR
	09/05/02	3.5	NR	NR	NR
	05/29/02	2.5	NR	NR	NR
	03/07/02	2.75	NR	NR	NR
	11/29/01	3.44	NR	NR	NR
	09/05/01	8.56	NR	NR	NR
	05/11/01	1.62	NR	NR	NR
	05/24/99	8.59	NR	NR	NR
	03/01/99	7.59	NR	NR	NR
	11/23/98	NM	NR	NR	NR
	08/24/98	7.52	NR	NR	NR
	06/08/98	5.6	NR	NR	NR
	03/11/98	4.69	NR	NR	NR
	12/16/97	5.03	NR	NR	NR
1065PZ3B (intermediate)	02/28/07	0.71	211.00	6.70	13.10
	03/09/06	0.72	286.2	7.21	16.9
	04/06/05	2.2	NR	NR	NR
	03/10/04	0.69	NR	NR	NR
	12/03/03	1	NR	NR	NR
	08/14/03	1.1	NR	NR	NR
	06/03/03	3.3	NR	NR	NR
	03/18/03	2.6	NR	NR	NR
	12/10/02	2.9	NR	NR	NR
	09/03/02	1	NR	NR	NR
	06/04/02	3.7	NR	NR	NR
	03/13/02	0.8	NR	NR	NR
	12/04/01	5	NR	NR	NR
	09/05/01	4	NR	NR	NR
	05/17/01	7.33	NR	NR	NR
	05/24/99	2.4	NR	NR	NR

Table A-11-1
Summary of Dissolved Oxygen Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065PZ3B (intermediate)	03/01/99	2.09	NR	NR	NR
	11/23/98	1.96	NR	NR	NR
	08/24/98	2.51	NR	NR	NR
	06/08/98	2.31	NR	NR	NR
	03/11/98	2.7	NR	NR	NR
	12/16/97	3.02	NR	NR	NR
	09/15/97	3.09	NR	NR	NR
1065PZ4A (shallow)	03/01/07	0.53	-114.1	6.52	15.49
	12/06/06	0.7	-134.7	6.79	19.17
	08/17/06	6.53	-116.6	6.70	21.00
	05/24/06	0.74	-125.9	6.85	19.04
	03/09/06	0.51	-112.8	5.19	16.59
	11/29/05	0.3	NR	NR	NR
	08/30/05	0.2	NR	NR	NR
	06/02/05	0.28	NR	NR	NR
	04/01/05	0.1	NR	NR	NR
	03/15/04	0.3	NR	NR	NR
	12/05/03	0.2	NR	NR	NR
	08/19/03	0.12	NR	NR	NR
	06/11/03	0.35	NR	NR	NR
	03/14/03	0.09	NR	NR	NR
	12/05/02	0.15	NR	NR	NR
	09/05/02	0.31	NR	NR	NR
	06/04/02	0.25	NR	NR	NR
	03/07/02	2.53	NR	NR	NR
	11/29/01	0.11	NR	NR	NR
	09/05/01	0.36	NR	NR	NR
	05/11/01	0.27	NR	NR	NR
	05/27/99	0.62	NR	NR	NR
	03/08/99	0.17	NR	NR	NR
	12/01/98	0.21	NR	NR	NR
	08/27/98	0.17	NR	NR	NR
	06/11/98	1.99 (J25)	NR	NR	NR
	03/17/98	0.63	NR	NR	NR
	12/22/97	0.31	NR	NR	NR
	09/18/97	0.39	NR	NR	NR
1065PZ4B (intermediate)	03/01/07	0.64	127.00	6.80	14.60
	03/13/06	1.79	146	6.9	16.3
	04/05/05	3.2	NR	NR	NR
	12/17/04	NM	NR	NR	NR
	03/17/04	0.33	NR	NR	NR
	12/05/03	1.6	NR	NR	NR
	08/14/03	1.2	NR	NR	NR
	06/06/03	1.7	NR	NR	NR
	03/17/03	1.3	NR	NR	NR
	12/09/02	2.5	NR	NR	NR
	09/04/02	1.7	NR	NR	NR
	06/04/02	2.2	NR	NR	NR
	03/13/02	2.8	NR	NR	NR
	12/04/01	4	NR	NR	NR
	09/05/01	0.96	NR	NR	NR
	05/09/01	2.1	NR	NR	NR
	05/27/99	1.47	NR	NR	NR

Table A-11-1
Summary of Dissolved Oxygen Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065PZ4B (intermediate)	03/08/99	1.22	NR	NR	NR
	12/01/98	1.17	NR	NR	NR
	08/27/98	1.9	NR	NR	NR
	06/11/98	2.13	NR	NR	NR
	03/17/98	1.2	NR	NR	NR
	12/22/97	1.22	NR	NR	NR
	09/18/97	1.5	NR	NR	NR
1065PZ5AR (shallow)	03/01/07	0.82	118.00	6.90	13.4
	12/07/06	3.66	-128.1	6.64	15.6
	08/16/06	0.42	-176.50	NA	21.9
	05/24/06	4.21	-88.3 NM	7.11	15.5
	03/07/06	0.41	12	7.13	12.9
	11/29/05	0.72	NR	NR	NR
	08/30/05	0.8	NR	NR	NR
	05/24/05	0.5	NR	NR	NR
	04/11/05	0.1	NR	NR	NR
	03/10/04	0.11	NR	NR	NR
	12/08/03	1	NR	NR	NR
	08/14/03	1	NR	NR	NR
	06/09/03	NM	NR	NR	NR
	03/17/03	0.2	NR	NR	NR
1065PZ5B (intermediate)	03/01/07	0.28	136.00	7.10	13.70
	03/13/06	3.98	122	7	14.4
	04/11/05	3	NR	NR	NR
	03/10/04	0.21	NR	NR	NR
	12/08/03	1.5	NR	NR	NR
	08/14/03	1.2	NR	NR	NR
	06/04/03	2	NR	NR	NR
	03/17/03	1.8	NR	NR	NR
	12/10/02	2.3	NR	NR	NR
	09/03/02	1	NR	NR	NR
	06/04/02	3	NR	NR	NR
	03/13/02	3.2	NR	NR	NR
	12/03/01	3.8	NR	NR	NR
	09/05/01	1.4	NR	NR	NR
	05/16/01	4.35	NR	NR	NR
	05/25/99	2.51	NR	NR	NR
	03/03/99	2.46	NR	NR	NR
	11/24/98	2.62	NR	NR	NR
	08/25/98	3.46	NR	NR	NR
	06/09/98	2.65	NR	NR	NR
	03/12/98	2.22	NR	NR	NR
	12/17/97	2.59	NR	NR	NR
	09/16/97	2.1	NR	NR	NR
1065PZ6A (shallow)	04/06/05	2.3	NR	NR	NR
	03/17/04	0.32	NR	NR	NR
	12/08/03	0.2	NR	NR	NR
	08/14/03	1.3	NR	NR	NR
	06/10/03	4.2	NR	NR	NR
	03/17/03	3.8	NR	NR	NR
	12/10/02	4.1	NR	NR	NR
	09/04/02	1.2	NR	NR	NR
	06/04/02	5.1	NR	NR	NR

Table A-11-1
Summary of Dissolved Oxygen Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065PZ6A (shallow)	03/13/02	3.8	NR	NR	NR
	12/04/01	3.8	NR	NR	NR
	09/05/01	1.49	NR	NR	NR
	05/17/01	5.61	NR	NR	NR
	05/24/99	5.36	NR	NR	NR
	03/01/99	5.35	NR	NR	NR
	11/23/98	4.63	NR	NR	NR
	08/24/98	5.09	NR	NR	NR
	06/08/98	4.28	NR	NR	NR
	03/11/98	5.17	NR	NR	NR
	12/16/97	4.44	NR	NR	NR
	09/15/97	3.51	NR	NR	NR
1065PZ6B (intermediate)	03/07/07	0.29	123.00	6.70	16.30
	03/10/06	1.27	137.1	6.69	17.9
	04/05/05	1.1	NR	NR	NR
	03/09/04	0.91	NR	NR	NR
	12/03/03	1.1	NR	NR	NR
	08/13/03	1.1	NR	NR	NR
	06/03/03	0.9	NR	NR	NR
	03/17/03	1.6	NR	NR	NR
	12/09/02	2.8	NR	NR	NR
	09/03/02	1.1	NR	NR	NR
	06/04/02	3.5	NR	NR	NR
	03/13/02	0.9	NR	NR	NR
	12/04/01	2	NR	NR	NR
	09/05/01	1.8	NR	NR	NR
	05/11/01	6.8	NR	NR	NR
	05/24/99	3.09	NR	NR	NR
	03/01/99	2.67	NR	NR	NR
	11/23/98	2.8	NR	NR	NR
	08/24/98	2.9	NR	NR	NR
	06/08/98	2.77	NR	NR	NR
	03/11/98	2.87	NR	NR	NR
	12/16/97	2.57	NR	NR	NR
	09/15/97	2.21	NR	NR	NR
1065PZ7A (shallow)	02/27/07	0.91	192.00	7.10	12.40
	03/15/06	4.47	270	6.29	14.8
	04/06/05	1.1	NR	NR	NR
	03/17/04	0.1	NR	NR	NR
	12/08/03	2.2	NR	NR	NR
	08/13/03	0.8	NR	NR	NR
	06/10/03	0.5	NR	NR	NR
	03/17/03	0.1	NR	NR	NR
	12/09/02	1.1	NR	NR	NR
	09/04/02	1.2	NR	NR	NR
	06/04/02	1.3	NR	NR	NR
	03/13/02	1.5	NR	NR	NR
	12/03/01	0.7	NR	NR	NR
	09/05/01	1.71	NR	NR	NR
	05/09/01	2.5	NR	NR	NR
	05/27/99	5.58 (J25)	NR	NR	NR
	03/08/99	2.27	NR	NR	NR
	12/01/98	2.21	NR	NR	NR

Table A-11-1
Summary of Dissolved Oxygen Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065PZ7A (shallow)	08/26/98	1.61	NR	NR	NR
	06/10/98	0.99	NR	NR	NR
	03/16/98	2.89	NR	NR	NR
	12/18/97	1.5	NR	NR	NR
	09/17/97	1.22	NR	NR	NR
1065PZ7B (intermediate)	03/01/07	1.03	131.00	6.80	14.40
	03/15/06	0.9	180.3	6.98	14.5
	04/06/05	1.3	NR	NR	NR
	03/17/04	2.2	NR	NR	NR
	12/08/03	3.2	NR	NR	NR
	08/13/03	0.5	NR	NR	NR
	06/10/03	2.8	NR	NR	NR
	03/17/03	2	NR	NR	NR
	12/09/02	5.1	NR	NR	NR
	09/04/02	1.2	NR	NR	NR
	06/04/02	2.7	NR	NR	NR
	03/13/02	2.4	NR	NR	NR
	12/03/01	0.8	NR	NR	NR
	09/05/01	1.91	NR	NR	NR
	05/09/01	4.5	NR	NR	NR
	05/27/99	3.66	NR	NR	NR
	03/08/99	3	NR	NR	NR
	12/01/98	3.65	NR	NR	NR
	08/26/98	3.11	NR	NR	NR
	06/10/98	2.45	NR	NR	NR
	03/16/98	3.91	NR	NR	NR
	12/18/97	2.31	NR	NR	NR
	09/17/97	2.14	NR	NR	NR
1065TMW03 (shallow)	06/02/03	NM	NR	NR	NR
	03/14/03	NM	NR	NR	NR
	12/09/02	NM	NR	NR	NR
	09/06/02	NM	NR	NR	NR
	06/06/02	NM	NR	NR	NR
	03/11/02	NM	NR	NR	NR
	11/29/01	NM	NR	NR	NR
	09/06/01	NM	NR	NR	NR
	05/18/01	6.47	NR	NR	NR
	05/27/99	3.66	NR	NR	NR
	03/08/99	3	NR	NR	NR
	12/01/98	3.65	NR	NR	NR
	08/26/98	3.11	NR	NR	NR
	06/10/98	2.45	NR	NR	NR
	03/16/98	3.91	NR	NR	NR
	12/18/97	2.31	NR	NR	NR
	09/17/97	2.14	NR	NR	NR
1065MW9A (shallow)	03/07/07	0.52	-65.0	6.70	15.70
	12/05/06	0.93	177.3	6.9	19.1
	08/16/06	1.74	-103	6.66	19.90
	05/24/06	2.13	-112	6.81	18.2
	03/09/06	0.59	121.3	6.9	15.5
	11/30/05	0.77	NR	NR	NR
	08/31/05	0.7	NR	NR	NR
	05/24/05	0.7	NR	NR	NR
	04/06/05	1.1	NR	NR	NR

Table A-11-1
Summary of Dissolved Oxygen Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065MW9A (shallow)	12/17/04	0.85	NR	NR	NR
	08/11/04	0.3	NR	NR	NR
	05/27/04	0.5	NR	NR	NR
	03/10/04	0.39	NR	NR	NR
	12/08/03	1.6	NR	NR	NR
	08/14/03	0.9	NR	NR	NR
	06/09/03	3.1	NR	NR	NR
	03/18/03	1.4	NR	NR	NR
1065MW9B (intermediate)	03/07/07	0.21	12.00	7.02	17.80
	12/07/06	3.8	191	6.6	15.5
	08/16/06	1.82	197.40	6.89	17.70
	05/25/06	0.36	57.7	6.8	17.3
	03/09/06	0.61	200.1	7.51	15.5
	11/29/05	0.9	NR	NR	NR
	05/24/05	0.7	NR	NR	NR
	04/06/05	2.1	NR	NR	NR
	12/17/04	0.6	NR	NR	NR
	08/11/04	1.6	NR	NR	NR
	05/27/04	0.76	NR	NR	NR
	03/10/04	0.37	NR	NR	NR
	12/08/03	3	NR	NR	NR
	08/13/03	0.9	NR	NR	NR
	06/09/03	2.1	NR	NR	NR
	03/18/03	1.4	NR	NR	NR
1065MW10A (shallow)	03/07/07	0.60	-109.00	6.80	13.60
	03/16/06	0.5	-120.3	6.65	14.8
	04/11/05	0.8	NR	NR	NR
	03/10/04	0.24	NR	NR	NR
	12/08/03	0.8	NR	NR	NR
	08/14/03	0.8	NR	NR	NR
	06/06/03	0.6	NR	NR	NR
	03/18/03	1.2	NR	NR	NR
1065MW10B (intermediate)	03/07/07	4.80	19.00	6.80	16.70
	03/09/06	NM	NM	7.06	15.3
	04/11/05	2.6	NR	NR	NR
	03/10/04	1.7	NR	NR	NR
	12/03/03	2.6	NR	NR	NR
	08/13/03	1	NR	NR	NR
	06/03/03	0.9	NR	NR	NR
	03/18/03	1.9	NR	NR	NR
1065MW11A (shallow)	03/07/07	0.32	97.00	6.94	16.40
	03/09/06	0.52	112.1	7.69	14.3
	04/11/05	1.2	NR	NR	NR
	03/17/04	0.92	NR	NR	NR
	12/08/03	5.8	NR	NR	NR
	08/14/03	0.8	NR	NR	NR
	06/06/03	7.7	NR	NR	NR
	03/18/03	0.4	NR	NR	NR
1065MW11B (intermediate)	03/07/07	0.27	75.00	6.80	17.30
	03/07/06	NM	NM	7	12.9
	04/11/05	2.2	NR	NR	NR
	03/09/04	1.91	NR	NR	NR
	12/04/03	2.91	NR	NR	NR
	08/13/03	1.2	NR	NR	NR
	06/03/03	1.2	NR	NR	NR
	03/18/03	1.1	NR	NR	NR

Table A-11-1
Summary of Dissolved Oxygen Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065MW101A (shallow)	03/01/07	0.48	-85.10	6.50	13.66
	12/06/06	1.1	-97.1	6.79	15.76
	08/16/06	0.47	-97.40	6.71	22.00
	05/24/06	0.22	-101.4	6.87	18.98
	03/13/06	0.82	-95.5	6.88	14.46
	11/29/05	0.8	NR	NR	NR
	08/31/05	0.7	NR	NR	NR
	05/26/05	0.3	NR	NR	NR
	03/29/05	0.2	NR	NR	NR
	12/17/04	0.3	NR	NR	NR
	08/13/04	0.2	NR	NR	NR
1065MW102A (shallow)	03/01/07	3.57	14.80	6.46	12.29
	12/06/06	1.01	-100.8	7.06	14.09
	08/16/06	0.66	-88.50	6.77	20.77
	05/24/06	0.25	-40.6	6.73	17.89
	03/14/06	4.87	91.1	6.72	11.69
	11/29/05	0.6	NR	NR	NR
	08/30/05	0.2	NR	NR	NR
	05/24/05	1.3	NR	NR	NR
	03/29/05	1	NR	NR	NR
	12/15/04	0.2	NR	NR	NR
	08/11/04	0.2	NR	NR	NR
1065MW103A (shallow)	06/07/07	1.48	204	6.8	18.4
1047MW101 (shallow)	03/01/07	0.21	171.00	6.10	13.00
	12/07/06	NM	NM	6.3	14.1
	08/16/06	3.81	204.10	6.93	18.10
	05/25/06	1.21	137.1	6.94	15.9
	03/07/06	1	181.7	7.5	13.8
	11/30/05	0.7	NR	NR	NR
	08/30/05	0.9	NR	NR	NR
	05/26/05	0.6	NR	NR	NR
	04/06/05	1.1	NR	NR	NR
	12/16/04	0.7	NR	NR	NR
	08/13/04	2.8	NR	NR	NR
	05/27/04	0.91	NR	NR	NR
	03/11/04	3.39	NR	NR	NR
	12/10/03	1.5	NR	NR	NR

Notes
mg/L - milligrams per liter
NM - Not measured
NR - Not reported
Table 11 in the main report identifies current and historical data qualifiers.

Table A-11-2
Results of General Chemistry Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065PZ1A (shallow)	03/01/07	550	550	57	0.2	0.71	< 0.05	7.7	< 0.04 UJ
	12/05/06	590	590	71	0.23	< 0.05	< 0.05	< 0.5	< 0.04
	08/17/06	560	560	72	0.22	< 0.05	< 0.05	< 0.5	< 0.04 UJ
	05/24/06	590	590	75	0.2	< 0.05	< 0.05	0.88	< 0.04 R
	03/14/06	500	500	64	0.19	0.76	< 0.05	14	< 0.04
	12/01/05	590	590	75	0.24	< 0.05	< 0.05	0.58	< 0.04
	08/31/05	580	580	63	0.24	< 0.05	< 0.05	< 0.5	< 0.04
	06/02/05	580	580	63	0.27	< 0.05	< 0.05	4.7	< 0.04
	03/29/05	480	480	42	0.19	0.37	< 0.05	32	< 0.04
	03/08/99	551	551	64.4	NA	1.7	NA	15	NA
	11/30/98	602	602	89	NA	0.46	NA	< 0.5	NA
	08/26/98	550	550	63	NA	< 0.4	NA	< 5	NA
	06/10/98	572	572	56.4	NA	0.995	NA	9.18	NA
	03/16/98	518	518	48.6	NA	2.84	NA	27.9	NA
	12/18/97	588	588	79.3	NA	0.013	NA	1.08	NA
	09/17/97	272	272	18.4 D	NA	0.678	NA	38.6	NA
1065PZ1B (intermediate)	03/07/07	420	420	170	< 0.1	< 0.05	< 0.05	62	0.04
	12/05/06	360	360	160	< 0.1	0.22	< 0.05	72	< 0.04
DUP1205061A	12/05/06	340	340	160	< 0.1	0.22	< 0.05	70	< 0.04
1065PZ1BCL	12/05/06	335	335	174	< 1 U	0.27	< 0.1 U	82.2	< 0.05
	08/15/06	440	440	180	< 0.1	< 0.05	< 0.05	60	0.05
	05/24/06	230	230	98	< 0.1	0.42	< 0.05	43	< 0.04 R
	03/07/06	390	390	180	< 0.1	< 0.05	< 0.05	55	0.06
	11/29/05	350 J+	350	160	< 0.1	0.24	< 0.05	62	< 0.04
	08/30/05	310	310	120	< 0.1 UJ	0.26	< 0.05 UJ	75	< 0.04
	05/24/05	350	350	170	< 0.1	< 0.05	< 0.05	55	0.05
DUP0524052A	05/24/05	370	370	170	< 0.1	0.05	< 0.05	57	< 0.04
	04/05/05	380	380	170	< 0.1	0.09	< 0.05	57	< 0.04
	03/08/99	391	391	65	NA	< 0.08	NA	67	NA
	11/30/98	389	389	87.7	NA	0.12	NA	82	NA
	08/26/98	390	390	58	NA	< 0.5	NA	66	NA
	08/26/98	390	390	58	NA	< 0.5	NA	66	NA
	06/10/98	406	406	59	NA	0.051	NA	62.7	NA
	03/16/98	384	384	57.8 D	NA	0.02	NA	63.8 D	NA
	12/18/97	393	393	65.9 D	NA	< 0.01	NA	71.4 D	NA
	09/17/97	372	372	61.7 D	NA	0.09	NA	72 D	NA

Table A-11-2
Results of General Chemistry Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065PZ2A (shallow)	03/01/07	220	220	30	0.27	1.2	< 0.05	39	< 0.04 UJ
	12/06/06	340	340	57	0.26	< 0.05	< 0.05	2.4	< 0.04 UJ
	08/17/06	300	300	50	0.29	< 0.05	< 0.05	1.4	< 0.04 UJ
	05/24/06	340	340	59	0.26	< 0.05	< 0.05	5.5	< 0.04 R
	03/13/06	270	270	90	0.29	< 0.05 UJ	< 0.05 UJ	18	< 0.04 UJ
	12/01/05	340	340	37	0.28	< 0.05	< 0.05	2.9	< 0.04
	08/30/05	350	350	37	0.28 J-	< 0.05	< 0.05 UJ	< 0.5	< 0.04
	05/24/05	330	330	39	0.24	< 0.05	< 0.05	< 0.5	< 0.04
	04/01/05	300	300	30	0.28	0.13	< 0.05	33	< 0.04
DUP0401052A	04/01/05	290	290	30	0.32	0.16	< 0.05	35	< 0.04
	03/03/99	353	353	63.7	NA	< 0.04	NA	12	NA
	11/24/98	368	368	99.7	NA	1.1	NA	26	NA
	08/25/98	350	350	57	NA	< 1	NA	< 13	NA
	08/25/98	NA	350	NA	NA	NA	NA	NA	NA
	06/09/98	383	383	62.9	NA	0.074	NA	2.22	NA
	03/12/98	358	358	67.3 D	NA	0.012	NA	1.67	NA
	12/17/97	385	385	81.8 D	NA	0.01	NA	1.84	NA
	09/16/97	358	358	77.2 D	NA	< 0.01	NA	4.34	NA
1065PZ2B (intermediate)	03/06/07	200	200	38	< 0.1	2.8	0.08	58	< 0.04
	03/07/06	200	200	36	< 0.1	2.8	< 0.05	55	< 0.04
	04/05/05	180	180	35	< 0.1	2.6	0.06	50	< 0.04
	03/03/99	NA	156	51.5	NA	5.2	NA	52	NA
	11/24/98	NA	162	60.6	NA	5.1	NA	58	NA
	08/25/98	NA	150	38	NA	3.9	NA	43	NA
	06/09/98	NA	156	43.5	NA	4.56	NA	48.5	NA
	03/12/98	NA	162	54 D	NA	4.57 D	NA	51.2 D	NA
	12/17/97	NA	165	58.4 D	NA	4.82	NA	61.8 D	NA
	09/16/97	NA	160	57.5 D	NA	4.46 D	NA	61.1 D	NA
1065PZ3A (shallow)	03/01/07	300	300	50	0.16	0.31	< 0.05	33	< 0.04 UJ
	03/13/06	280	280	32	0.28	0.17 J-	< 0.05 UJ	20	< 0.04 UJ
	04/05/05	430	430	71	0.26	1	< 0.05	78	< 0.04
DUP0405052A	04/05/05	420	420	71	0.27	1	< 0.05	78	< 0.04
1065PZ3ACL	04/05/05	435	435	73	0.39	1.03	< 0.02 U	79	< 0.04 U
	03/01/99	NA	245	35	NA	1	NA	32	NA
	11/23/98	NA	245	36	NA	3.2	NA	38	NA
	08/24/98	NA	240	15	NA	1	NA	19	NA
	06/08/98	NA	280	9.19 D	NA	1.42	NA	14.3	NA
	03/11/98	NA	370	34.2 D	NA	1.1 D	NA	26.4 D	NA
	12/16/97	NA	563	41.9 D	NA	2.06	NA	43.2 D	NA

Table A-11-2
Results of General Chemistry Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065PZ3B (intermediate)	02/28/07	300	300	57	< 0.1	2	< 0.05	68	< 0.04
DUP0228072A	02/28/07	290	290	58	< 0.1	2	< 0.05	68	< 0.04
	03/09/06	250	250	67	< 0.1	2.4	< 0.05	83	< 0.04 UJ
	04/06/05	270	270	69	< 0.1	2.1	< 0.05	83	< 0.04 UJ
	03/01/99	NA	263	111	NA	3.7	NA	100	NA
	11/23/98	NA	261	41	NA	1.3	NA	36	NA
	08/24/98	NA	260	82	NA	3.1	NA	78	NA
	06/08/98	NA	250	93.6 D	NA	3.82 D	NA	89.5 D	NA
	03/11/98	NA	238	91.8 D	NA	3.54 D	NA	76.2 D	NA
	12/16/97	NA	475	95.3 D	NA	4.02	NA	85.2 D	NA
	09/15/97	NA	226	70 D	NA	3.68 D	NA	64.4 D	NA
1065PZ4A (shallow)	03/01/07	680	680	68	0.14	< 0.05	< 0.05	< 0.5	< 0.04 UJ
	12/06/06	680	680	65	< 0.1	< 0.05	< 0.05	< 0.5	< 0.04 UJ
	08/17/06	440	440	67	< 0.1	< 0.05	< 0.05	< 0.5	< 0.04 UJ
	05/24/06	580	580	68	0.16	< 0.05	< 0.05	4.7	< 0.04 R
	03/09/06	640	640	65	< 0.1	< 0.05	< 0.05	< 0.5	< 0.04 UJ
	11/29/05	570 J+	570	61	0.12	< 0.05	< 0.05	< 0.5	< 0.04
	08/30/05	550	550	62	0.12 J-	< 0.05	< 0.05 UJ	< 0.5	< 0.04
	06/02/05	530	530	57	< 2.5	< 1.3	< 1.3	< 13	< 0.04
	04/01/05	500	500	62	0.13	< 0.05	< 0.05	< 0.5	< 0.04
	03/08/99	NA	364	58.7	NA	< 0.04	NA	34	NA
	12/01/98	NA	456	76.9	NA	< 0.04	NA	18	NA
	08/27/98	NA	410	52	NA	< 0.5	NA	33	NA
	06/11/98	NA	380	52.3	NA	< 0.05	NA	38.9	NA
	03/17/98	NA	368	54.9 D	NA	0.01	NA	39.3 D	NA
	12/22/97	NA	475	66.7 D	NA	0.015	NA	25.8 D	NA
	09/18/97	NA	517	72.7 D	NA	0.034	NA	31.7 D	NA
1065PZ4B (intermediate)	03/01/07	300	300	56	< 0.1	4	< 0.05	64	< 0.04 UJ
	03/13/06	280	280	50	< 0.1	4	< 0.05	60	< 0.04 UJ
	04/05/05	270	270	50	< 0.1	4.7	< 0.05	59	< 0.04
	03/08/99	NA	225	55.7	NA	4.2	NA	64	NA
	12/01/98	NA	225	68.2	NA	5.1	NA	71	NA
	08/27/98	NA	210	46	NA	4.3	NA	58	NA
	06/11/98	NA	224	49.2	NA	4.51	NA	59.9	NA
	03/17/98	NA	222	49.5 D	NA	4.56 D	NA	60.2 D	NA
	12/22/97	NA	225	55 D	NA	5.04 D	NA	71.7 D	NA
	09/18/97	NA	216	53.4 D	NA	4.6 D	NA	64.2 D	NA

Table A-11-2
Results of General Chemistry Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065PZ5AR (shallow)	03/01/07	790	790	65	0.22	< 0.05	< 0.05	< 0.5	< 0.04 UJ
	12/07/06	720	720	66	0.23	< 0.05	< 0.05	< 0.5	< 0.04 UJ
	08/16/06	730	730	66	0.26	< 0.05	< 0.05	< 0.5	< 0.04
	05/24/06	700	700	64	0.25	< 0.05	< 0.05	0.6	< 0.04 R
	03/07/06	780	780	68	0.2	< 0.05	< 0.05	< 0.5	< 0.04
DUP0307062B	03/07/06	780	780	68	0.2	< 0.05	< 0.05	< 0.5	< 0.04
1065PZ5ARCL	03/07/06	776	776	71.1	< 1 U	< 0.02 U	< 0.02 U	0.5	< 0.05 U UJ
	11/29/05	780 J+	780	68	0.25	< 0.05	< 0.05	< 0.5	< 0.04
	08/30/05	780	780	70	0.27 J-	0.33	0.07 J-	0.67	< 0.04
	05/24/05	670	670	63	0.23	< 0.05	< 0.05	5.3	< 0.04
	04/11/05	790	790	76	0.27	< 0.05	< 0.05	< 0.5	< 0.04
1065PZ5B (intermediate)	03/01/07	230	230	39	< 0.1	4.2	< 0.05	70	< 0.04 UJ
	03/13/06	230	230	40	< 0.1	3.5	< 0.05	80	< 0.04 UJ
	04/11/05	160	160	41	< 0.1	3.5	< 0.05	75	< 0.04
	03/03/99	NA	174	40.5	NA	4.3	NA	54	NA
	11/24/98	NA	163	44.2	NA	4.4	NA	48	NA
	08/25/98	140	140	26	NA	3.2	NA	33	NA
	06/09/98	NA	150	28.1	NA	3.49	NA	35.3	NA
	03/12/98	NA	154	29.7 D	NA	3.49 D	NA	39.7 D	NA
	12/17/97	NA	153	32.7 D	NA	4.3	NA	46.9 D	NA
	09/16/97	NA	153	33.9 D	NA	4.48 D	NA	49.4 D	NA
1065PZ6A (shallow)	04/06/05	240	240	85	< 0.1	4	< 0.05	100	< 0.04
	03/01/99	NA	255	72.4	NA	5.4	NA	95	NA
	03/01/99	NA	NA	72.4	NA	5.4	NA	95	NA
	11/23/98	251	251	85.8	NA	5.9	NA	110	NA
	08/24/98	240	240	56	NA	4.2	NA	75	NA
	08/24/98	NA	NA	56	NA	4.2	NA	75	NA
	06/08/98	NA	202	65.6 D	NA	18.2 D	NA	92.7 D	NA
	06/08/98	NA	NA	65.6 D	NA	18.2 D	NA	92.7 D	NA
	03/11/98	NA	254	65.8 D	NA	4.63 D	NA	87 D	NA
	03/11/98	NA	NA	65.8 D	NA	4.63 D	NA	87 D	NA
	12/16/97	NA	363	70.1 D	NA	6 D	NA	93.9 D	NA
	09/15/97	250	250	71.2 D	NA	5.58 D	NA	97.5 D	NA
	09/15/97	NA	NA	71.2 D	NA	5.58 D	NA	97.5 D	NA

Table A-11-2
Results of General Chemistry Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065PZ6B	03/07/07	240	240	64	< 0.1	3.5	< 0.05	75	< 0.04
(intermediate)	03/10/06	230	230	88	< 0.1	4.3	< 0.05	97	< 0.04 UJ
	04/05/05	230	230	98	< 0.1	3.6	< 0.05	94	< 0.04
	03/01/99	224	224	56.8	NA	5	NA	66	NA
	11/23/98	227	227	64	NA	4.9	NA	70	NA
	08/24/98	220	220	46	NA	4.1	NA	57	NA
	06/08/98	228	228	54.4 D	NA	5.01 D	NA	72.5 D	NA
	03/11/98	230	230	58.6 D	NA	4.9 D	NA	72 D	NA
	12/16/97	500	500	62 D	NA	5.58 D	NA	81 D	NA
	09/15/97	216	216	58.4 D	NA	5.11 D	NA	80.7 D	NA
1065PZ7A									
(shallow)	02/27/07	540	540	35	0.12	1.7	< 0.05	74	< 0.04 R
DUP0227072B	02/27/07	530	530	33	0.12	1.7	< 0.05	74	< 0.04 R
	03/15/06	240	240	76	< 0.1	2.5	< 0.05	95	< 0.04
	04/06/05	410	410	37	0.14	2.9	< 0.05	62	< 0.04 UJ
	03/08/99	279	279	16	NA	0.24	NA	35	NA
	03/08/99	NA	NA	16	NA	0.24	NA	35	NA
	12/01/98	269	269	19.6	NA	0.42	NA	31	NA
	12/01/98	NA	NA	19.6	NA	0.42	NA	31	NA
	08/26/98	260	260	14	NA	0.33	NA	32	NA
	08/26/98	NA	NA	14	NA	0.33	NA	32	NA
	06/10/98	282	282	18.7 G	NA	0.717	NA	38.8	NA
	06/10/98	NA	NA	18.7 G	NA	0.717	NA	38.8	NA
	03/16/98	276	276	19 D	NA	0.744 D	NA	38.2 D	NA
	03/16/98	NA	NA	19 D	NA	0.744 D	NA	38.2 D	NA
	12/18/97	270	270	18.2 D	NA	0.633	NA	41.1 D	NA
	09/17/97	599	599	82.1 D	NA	0.011	NA	1.69	NA
	09/17/97	NA	NA	82.1 D	NA	0.011	NA	1.69	NA
1065PZ7B	03/01/07	350	350	150	< 0.1	4.8	< 0.05	190	< 0.04 UJ
(intermediate)	03/15/06	440	440	30	0.13	3.8	< 0.05	61	< 0.04
	04/06/05	240	240	120	< 0.1	3.2	< 0.05	110	0.06 J-
	03/08/99	260	260	46.6	NA	2.6	NA	57	NA
	12/01/98	235	235	56	NA	2.5	NA	61	NA
	08/26/98	240	240	48	NA	2.9	NA	58	NA
	06/10/98	288	288	53.4	NA	2.79	NA	66.3	NA
	03/16/98	270	270	54.8 D	NA	3.28 D	NA	71.2 D	NA
	12/18/97	260	260	63.9 D	NA	3.27	NA	81.8 D	NA
	09/17/97	264	264	57.3 D	NA	3.42 D	NA	72.3 D	NA

Table A-11-2
Results of General Chemistry Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065MW9A	03/07/07	490	490	170	0.13	< 0.05	< 0.05	15	< 0.04
(shallow)	12/05/06	450	450	170	0.15	< 0.05	< 0.05	20	< 0.04
DUP1205062C	12/05/06	450	450	170	0.11	< 0.05	< 0.05	19	< 0.04
1065MW9ACL	12/05/06	433	433	192	< 1 U	< 0.1 U	< 0.1 U	19.3	< 0.05
	08/16/06	440	440	160	0.19	< 0.05	< 0.05	16	< 0.04
	05/24/06	430	430	170	0.12	< 0.05	< 0.05	21	< 0.04 R
DUP0524063B	05/24/06	430	430	170	0.12	< 0.05	< 0.05	21	< 0.04 R
1065MW9ACL	05/24/06	436	436	170	< 1 U	< 0.02 U UJ	< 0.02 U	17.3	0.17 J-
	03/09/06	460	460	170	0.12	< 0.05	< 0.05	22	0.07 J-
DUP0309062B	03/09/06	420	420	170	0.11	< 0.05	< 0.05	21	< 0.04 UJ
	11/30/05	450 J+	450	190	0.16	< 0.05	< 0.05	19	< 0.04
DUP1130052B	11/30/05	450 J+	450	180	0.14	< 0.05	< 0.05	19	< 0.04
1065MW9ACL	11/30/05	422	422	202	< 1 U	< 0.1 U UJ	< 0.1 U UJ	18.7	< 0.05 U
	08/30/05	430	430	180	0.13 J-	< 0.05	< 0.05 UJ	22	< 0.04
DUP0830052B	08/30/05	420	420	170	0.13 J-	< 0.05	< 0.05 UJ	22	< 0.04
1065MW9ACL	08/30/05	432	432	159	< 0.3 U	< 0.1 U	< 1 U	22.7	0.05 J-
	05/24/05	410	410	180	0.11	< 0.05	< 0.05	21	< 0.04
	04/06/05	430	430	190	0.18	< 0.05	< 0.05	17	< 0.04 UJ
DUP0406052A	04/06/05	450	450	180	0.17	< 0.05	< 0.05	15	< 0.04 UJ
1065MW9B	03/07/07	280	280	56	< 0.1	5.5	< 0.05	82	< 0.04
(intermediate)	12/07/06	260	260	53	< 0.1	6.1	< 0.05	76	< 0.04 UJ
	08/16/06	170	170	130	< 0.1	14	< 0.05	180	< 0.04
DUP0816062A	08/16/06	250	250	52	< 0.1	5.7	< 0.05	72	< 0.04
1065MW9BCL	08/16/06	253	253	53	< 2 U	6 J-	< 0.02 U	76	< 0.05
	05/25/06	250	250	55	< 0.1	5.4	< 0.05	75	< 0.04
	03/09/06	240	240	55	< 0.1	5.4	< 0.05	73	< 0.04 UJ
	11/29/05	240 J+	240	55	< 0.1	5.9	< 0.05	71	< 0.04
	08/30/05	240	240	50	< 0.1 UJ	5.4	< 0.05 UJ	64	< 0.04
	05/24/05	360	360	48	< 0.1	5	< 0.05	65	< 0.04
	04/06/05	250	250	53	< 0.1	5.3	< 0.05	67	< 0.04 UJ
1065MW10A	03/07/07	260	260	51	< 0.1	< 0.05	< 0.05	48	< 0.04
(shallow)	03/16/06	260	260	55	< 0.1	< 0.05	< 0.05	45	< 0.04 R
	04/11/05	220	220	58	0.11	< 0.05	< 0.05	46	< 0.04

Table A-11-2
Results of General Chemistry Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065MW10B (intermediate)	03/07/07	270	270	59	< 0.1	5.3	< 0.05	78	< 0.04
	03/09/06	230	230	51	< 0.1	4.5	< 0.05	65	< 0.04 UJ
	04/11/05	240	240	55	< 0.1	4.9	< 0.05	67	< 0.04
1065MW11A (shallow)	03/07/07	190	190	40	< 0.1	4.7	< 0.05	71	< 0.04
	03/09/06	120	120	20	0.13	2.8	< 0.05	34	< 0.04 UJ
	04/11/05	240	240	58	0.12	2.9	< 0.05	84	< 0.04
1065MW11B (intermediate)	03/07/07	270	270	55	< 0.1	4.3	< 0.05	83	< 0.04
	03/07/06	190	190	77	< 0.1	3.8	< 0.05	78	< 0.04
	04/11/05	250	250	72	< 0.1	3.6	< 0.05	82	< 0.04
1065MW101A (shallow)	03/01/07	670	670	44	0.25	< 0.05	< 0.05	< 0.5	< 0.04 UJ
	12/06/06	670	670	45	0.25	< 0.05	< 0.05	< 0.5	< 0.04 UJ
	08/16/06	690	690	51	0.28	< 0.05	< 0.05	< 0.5	< 0.04
	05/24/06	660	660	44	0.27	< 0.05	< 0.05	< 0.5	< 0.04 R
	03/13/06	600	600	43	0.25	< 0.05	< 0.05	< 0.5	< 0.04 UJ
	11/29/05	680 J+	680	46	0.26	< 0.05	< 0.05	0.5	< 0.04
	08/31/05	730	730	51	0.29 J-	< 0.05	< 0.05 UJ	< 0.5	0.06
	05/26/05	740	740	54	0.35	< 0.05	< 0.05	< 0.5	< 0.04
DUP0526051B	05/26/05	780	780	55	0.35	< 0.05	< 0.05	< 0.5	< 0.04
1065MW101ACL	05/26/05	724	724	52	0.3	< 0.1 U	< 1 U	< 1 U	0.140 J-
	03/29/05	670	670	54	0.28	< 0.05	< 0.05	0.98	0.06
1065MW102A (shallow)	03/01/07	81	81	19	0.1	0.23	< 0.05	15	< 0.04 UJ
	12/06/06	220	220	42	0.22	< 0.05	< 0.05	37	< 0.04 UJ
	08/16/06	460	460	100	0.42	0.08	0.36	8.7	0.1
	05/24/06	330	330	66	0.54	< 0.05	< 0.05	11	0.04 J-
	03/14/06	150	150	26	0.25	0.13	< 0.05	16	0.04
	11/29/05	64 J+	64	15	0.15	0.32	< 0.05	24	< 0.04
	05/24/05	330	330	46	0.4	0.07	< 0.05	31	2.4
	03/29/05	220	220	25	0.46	0.2	< 0.05	33	0.11
1065MW103A	06/07/07	370	370	180	0.23	< 0.05	0.29	47 J+	< 0.04 UJ
1047MW101	03/01/07	33	33	11	0.1	0.27	< 0.05	5.7	< 0.04 UJ
DUP0301072A	03/01/07	32	32	11	< 0.1	0.28	< 0.05	5.6	< 0.04 UJ
1047MW101CL	03/01/07	38	NA	NA	< 0.2	0.28	< 0.1	6.6	< 0.4 UJ

Table A-11-2
Results of General Chemistry Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
1047MW101	03/07/06	30	30	2.9	< 0.1	0.12	< 0.05	2.1	< 0.04
DUP0307062A	03/07/06	29	29	2.9	< 0.1	0.12	< 0.05	2.0	< 0.04
1047MW101CL	03/07/06	31	31	3.4	< 1 U	0.111	< 0.02 U	2.3	< 0.05 U UJ
	04/06/05	95	95	8.9	0.12	0.13	< 0.05	5.1	< 0.04 UJ

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
mg/L - milligrams per liter
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	--	--	--	**770/443**	--	--
1065PZ1A (shallow)	03/01/07	0.07 J	< 0.5	< 0.5	< 1	< 0.5	< 0.5 UJ	ND	NA	140 Y	< 50	< 300
	12/05/06	< 0.5	< 0.5	< 0.5	0.9	< 0.5	< 0.5	ND	NA	260 Y	< 50	< 300
	08/17/06	0.06 J	< 0.5	< 0.5	0.7	< 0.5	< 0.5	ND	NA	230	< 50	< 300
	05/24/06	0.09 J	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	160 Y	< 50	< 300
	03/14/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	86	58 Y	< 300
	12/01/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	160	< 50	< 300
	08/31/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	160	< 80	< 480
	06/02/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	170	< 50	< 300
	03/29/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	56	< 50	< 300
	12/17/04	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	08/11/04	< 0.5	< 0.5	1.2	< 0.5	3	NA	NA	NA	200	< 50	< 300
	05/26/04	< 0.5	1.9	< 0.5	0.76	2.8 C	NA	NA	NA	220	< 50	< 300
	03/19/04	< 0.5	< 0.5	< 0.5	0.78	< 2	NA	NA	NA	230	< 50	< 300
	12/05/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	170	< 50	< 300
	08/19/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	310 H	< 50	< 300
	06/11/03	< 0.5	< 0.5	< 0.5	0.68	< 2	NA	NA	NA	170 Y	< 50	< 300
	03/17/03	< 0.5	1.2 C	0.86	0.77	< 2	NA	NA	NA	140	< 50	< 300
	12/06/02	< 0.5	2.2	< 0.5	1.2	< 2	NA	NA	NA	200 Y	< 50	< 300
	09/05/02	< 0.5	< 0.5	< 0.5	0.92	< 2	NA	NA	NA	180 Y	< 50	< 300
DUP0905021A	09/05/02	< 0.5	< 0.5	< 0.5	0.79	< 2	NA	NA	NA	160 Y	< 50	< 300
	05/30/02	< 0.5	1.6	0.52	1	< 2	NA	NA	NA	120	< 50	< 300
	03/07/02	< 0.5	1.4	< 0.5	0.58	< 2	NA	NA	NA	97	< 50	< 300
	11/29/01	< 0.5	< 0.5	< 0.5	0.96	< 2	NA	NA	NA	190	< 50	< 300
	09/06/01	< 0.5	1.4	< 0.5	0.64	< 2	NA	NA	NA	150	450 [3] Y,NJ	< 300 [3]
DUP0906013A	09/06/01	< 0.5	2.4	< 0.5	0.61	< 2	NA	NA	NA	140	440 [3] Y,NJ	< 300 [3]
1065PZ1ACL	09/06/01	< 0.5	< 0.5	< 0.5	< 0.5	< 5	NA	NA	NA	100 g	< 50	< 300
	05/11/01	< 0.5	< 0.5	< 0.5	0.7	< 2	NA	NA	NA	190 Y	< 50	< 300
	07/18/00	NA	NA	NA	NA	NA	NA	NA	NA	120	< 50	NA
	05/27/99	< 0.5	< 0.5	< 0.5	0.93	NA	NA	NA	NA	110 (J25)	94 (J25)	< 300
	03/08/99	< 0.5	< 0.5	< 0.5	0.91	NA	NA	NA	NA	120 (J25)	< 50	< 300
	11/30/98	< 0.5 (U29)	< 0.5 (U29)	< 0.5 (U29)	0.89 (J29)	NA	NA	NA	NA	180 (J25, J29)	< 76 (U12)	< 310
	08/26/98	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 2 (U18)	NA	NA	NA	NA	130 (J18, J25)	< 50	< 300
	06/10/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	76 (J25)	65	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	--	--	--	**770/443**	--	--
1065PZ1A (shallow)	03/16/98	< 0.5	< 0.5	< 0.5	1	NA	NA	NA	NA	77 (J25)	< 50	< 300
	12/18/97	< 0.5	< 0.5	0.67	< 1	NA	NA	NA	NA	150 (J25)	< 50	< 300
	09/17/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	190 (J25)	< 50	< 300
1065PZ1B (intermediate)	03/07/07	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5 UJ	ND	NA	< 50	< 50	< 300
	12/05/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
DUP1205061A	12/05/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
1065PZ1BCL	12/05/06	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 2 U	< 5 U	ND	NA	< 50 U	< 48 U	< 290 U
	08/15/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	05/24/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	03/07/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	11/29/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	350 YZ
	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	05/24/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
DUP0524052A	05/24/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	04/05/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	12/17/04	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
DUP1217042B	12/17/04	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	08/13/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 U	NA	NA	NA	< 50	< 50	< 300
	05/27/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	< 50	< 50	< 300
	12/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/09/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP1209023A	12/09/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
1065PZ1BCL	12/09/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	NA	NA	NA	< 50	< 50	< 250
	09/03/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/03/02	< 0.5	< 0.5	< 0.5	< 0.5	2.4	NA	NA	NA	< 50	< 50	< 300
	03/13/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/03/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/16/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	<50	<300
	05/27/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	03/08/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	--	--	--	**770/443**	--	--
1065PZ1B (intermediate)	11/30/98	< 0.5 (U29)	< 0.5 (U29)	< 0.5 (U29)	< 0.5 (U29)	NA	NA	NA	NA	< 50 (U29)	< 55 (U12)	< 330
	08/26/98	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 1 (U18)	NA	NA	NA	NA	< 50 (U18)	< 50	< 300
	06/10/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/16/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/18/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/17/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
1065PZ2A (shallow)	03/01/07	< 0.5	< 0.5	< 0.5	< 1	2.1	NA	NA	NA	< 50	< 50	< 300
	12/06/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 100	< 600
	08/17/06	< 0.5	< 0.5	< 0.5	< 1	2.7 C U	NA	NA	NA	< 50	< 50	< 300
	05/24/06	< 0.5	< 0.5	< 0.5	< 1	7.1	NA	NA	NA	< 50	< 50	< 300
	03/13/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	12/01/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	05/24/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/01/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0401052A	04/01/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	12/15/04	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	< 50	< 50	< 50	< 300
	08/11/04	< 0.5	< 0.5	< 0.5	< 0.5	5	NA	NA	NA	< 50	< 50	< 300
	05/25/04	< 0.5	< 0.5	< 0.5	< 0.5	2.4 C	NA	NA	< 50	< 50	< 50	< 300
	03/15/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/05/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/19/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	05/29/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/07/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 UJ	< 300 UJ
	11/29/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/11/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0511013A	05/11/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	05/25/99	< 0.5	0.74	< 0.5	1.1	NA	NA	NA	NA	< 50	68 (U12)	< 300
	03/03/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	--	--	--	**770/443**	--	--
1065PZ2A (shallow)	11/24/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 51	< 310
	08/25/98	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	NA	NA	NA	NA	< 50	< 50 (U18)	< 300
	06/09/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/12/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/17/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/16/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	66 (R32)	< 300
1065PZ2B (intermediate)	03/06/07	< 0.5	< 0.5	< 0.5	< 1	2.3	NA	NA	NA	< 50	< 50	< 300
	03/07/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/05/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/03/03	< 0.5	< 0.5	< 0.5	< 0.5	2.6	NA	NA	NA	< 50	< 50	< 300
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0813032A	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/06/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/09/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/03/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/13/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/04/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/16/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	<50	< 300
	05/25/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	03/03/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	11/24/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 52	< 310
	08/25/98	< 0.5	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	NA	NA	NA	NA	< 50 (U18)	< 50	< 300
	06/09/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/12/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/17/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/16/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	--	--	--	**770/443**	--	--
1065PZ3A	03/01/07	< 0.5	< 0.5	< 0.5	< 1	2.5	NA	NA	NA	< 50	< 50	< 300
(shallow)	03/13/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/05/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0405052A	04/05/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
1065PZ3ACL	04/05/05	< 1 U	< 1 U	< 1 U	< 2 U	< 5 U	NA	NA	NA	< 50 U	< 50 U	< 300 U
	03/15/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	05/29/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/07/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	11/29/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/11/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	05/24/99	< 0.5	0.82	< 0.5	1.1	NA	NA	NA	NA	< 50	59 (J25)	< 300
	03/01/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	11/23/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 61	< 370
	08/24/98	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	NA	NA	NA	NA	< 50 (U18)	< 50	< 300
	06/08/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/11/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/16/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
1065PZ3B												
(intermediate)	02/28/07	< 0.5	< 0.5	< 0.5	< 1	2.8	NA	NA	NA	< 50	< 50	< 300
DUP0228072A	02/28/07	< 0.5	< 0.5	< 0.5	< 1	4.8	NA	NA	NA	< 50	< 50	< 300
	03/09/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/06/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	< 50	< 50	< 300
	12/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0814032A	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
1065PZ3BCL	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	NA	NA	NA	< 50	< 48	< 240
	06/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/10/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/03/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	--	--	--	**770/443**	--	--
1065PZ3B (intermediate)	03/13/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/04/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	110 [3] Y,NJ	< 300 [3]
DUP0905012A	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	110 [3] Y,NJ	< 300 [3]
1065PZ3BCL	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 5	NA	NA	NA	< 50	< 50	< 300
	05/17/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0517014A	05/17/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
1065PZ3BCL	05/17/01	< 0.5	< 0.5	< 0.5	< 0.5	< 5	NA	NA	NA	< 50	< 50	<500
	05/24/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	67 (J25)	< 300
	03/01/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	11/23/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 54	< 320
	08/24/98	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	NA	NA	NA	NA	< 50 (U18)	< 50	< 300
	06/08/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/11/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/16/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/15/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
1065PZ4A [4] (shallow)	03/01/07	< 0.5	< 0.5	< 0.5	< 1	2.1 C	NA	NA	NA	< 50	< 50	< 300
	12/06/06	< 0.5	< 0.5	< 0.5	< 1	7 C	NA	NA	NA	< 50	< 100	< 600
	08/17/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	90 HY	390
	05/24/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/09/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	11/29/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	06/02/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/01/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/15/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/05/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/19/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/11/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/14/03	< 0.5	< 0.5	< 0.5	< 0.5	5.9	NA	NA	NA	< 50	< 50	< 300
	12/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/07/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 UJ	< 300 UJ

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	--	--	--	**770/443**	--	--
1065PZ4A [4]	11/29/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
(shallow)	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	140 [3] YH,NJ	< 300 [3]
	05/11/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 300	< 50	< 300
	05/27/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	03/08/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/01/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 54 (U12)	< 310
	08/27/98	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 1 (U18)	NA	NA	NA	NA	< 50 (U18)	< 50	< 300
	06/11/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	56 (J25)	< 300
	03/17/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/22/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	09/18/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
1065PZ4B [4]	03/01/07	< 0.5	< 0.5	< 0.5	< 1	3	NA	NA	NA	< 50	< 50	< 300
(intermediate)	03/13/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/05/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/05/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/06/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/09/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/13/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/04/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/09/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 300	< 50	< 300
DUP0509012A	05/09/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	05/27/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	03/08/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/01/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 53 (U12)	< 310
	08/27/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	06/11/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	--	--	--	**770/443**	--	--
1065PZ4B [4] (intermediate)	03/17/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/22/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	09/18/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50 (U29)	< 300
1065PZ5AR (shallow)	03/01/07	< 0.5	< 0.5	< 0.5	< 1	3.9	NA	NA	NA	< 50	< 50	< 300
	12/07/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	< 50	< 50	< 50	< 300
	08/16/06	< 0.5	< 0.5	< 0.5	< 1	3.9 C	NA	NA	NA	< 50	< 50	< 300
	05/24/06	< 0.5	< 0.5	< 0.5	< 1	3.5 C	NA	NA	NA	< 50	< 50	< 300
	03/07/06	< 0.5	0.54 C	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0307062B	03/07/06	< 0.5	< 0.5	< 0.5	< 1	< 2.5 U	NA	NA	NA	< 50	< 50	< 300
1065PZ5ARCL	03/07/06	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 2	NA	NA	NA	< 50 U	72 J+	< 300 U
	11/29/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	05/24/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/11/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	< 50	< 50	< 300
	12/08/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/09/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
1065PZ5B	03/01/07	< 0.5	< 0.5	< 0.5	< 1	2.6	NA	NA	NA	< 50	< 50	< 300
	03/13/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
(intermediate)	04/11/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/08/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0604032B	06/04/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
1065PZ5BCL	06/04/03	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 250
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/10/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/03/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/13/02	< 0.5	0.62 C	< 0.5	0.75	< 2	NA	NA	NA	< 50	< 50	< 300
	12/03/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	--	--	--	**770/443**	--	--
1065PZ5B (intermediate)	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/16/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 300	< 50	< 300
	05/25/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	66 (J25)	< 300
	03/03/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	11/24/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	08/25/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	06/09/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/12/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/17/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/16/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
1065PZ6A (shallow)	04/06/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/08/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/10/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/10/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/13/02	< 0.5	< 0.5	< 0.5	0.78	< 2	NA	NA	NA	< 50	< 50	< 300
	12/04/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/17/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 300	< 50	< 300
	05/24/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	51 (J25)	< 300
	03/01/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	480 (J25)	430 (J25)
	11/23/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 320
	08/24/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	06/08/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/11/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/16/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/15/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	--	--	--	**770/443**	--	--
1065PZ6B (intermediate)	03/07/07	< 0.5	< 0.5	< 0.5	< 1	< 2.3 U	NA	ND	NA	< 50	< 50	< 300
	03/10/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/05/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/09/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/09/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/03/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/13/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/04/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/11/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 300	< 50	< 300
DUP0511012A	05/11/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 300	< 50	< 300
	05/24/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	03/01/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	11/23/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 52	< 310
	08/24/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	06/08/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/11/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/16/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/15/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
1065PZ7A [4] (shallow) DUP0227072B	02/27/07	< 0.5	< 0.5	< 0.5	< 1	12 C	NA	NA	NA	< 50	< 50	< 300
	02/27/07	< 0.5	< 0.5	< 0.5	< 1	2.8 C	NA	NA	NA	< 50	< 50	< 300
	03/15/06	< 0.5	< 0.5	< 0.5	< 1	**16**	NA	NA	NA	< 50	< 50	< 300
	04/06/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/08/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/10/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	--	--	--	**770/443**	--	--
1065PZ7A [4] (shallow)	12/09/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/13/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/03/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/09/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 300	< 50	< 300
	05/27/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	03/08/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/01/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 53 (U12)	< 300
	08/26/98	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 1 (U18)	NA	NA	NA	NA	< 50 (U18)	< 50	< 300
	06/10/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/16/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/18/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/17/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50 (U29)	< 300
1065PZ7B [4] (intermediate)	03/01/07	< 0.5	< 0.5	< 0.5	< 1	3.3	NA	NA	NA	< 50	< 50	< 300
	03/15/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/06/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/08/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/10/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/09/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/13/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/03/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/09/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	05/27/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	--	--	--	**770/443**	--	--
1065PZ7B [4] (intermediate)	03/08/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/01/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 55 (U12)	< 330
	08/26/98	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 1 (U18)	NA	NA	NA	NA	< 50 (U18)	< 50	< 300
	06/10/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/16/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/18/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/17/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50 (U18)	< 300
1065TMW03 (shallow)	09/06/02	**1,200**	95	290	200	< 10	NA	NA	NA	**6,200**	NA	NA
	06/06/02	**660**	38	150	99	< 20	NA	NA	NA	**4,100**	< 50	< 300
	03/11/02	**170**	14	38	19	**52 C**	NA	NA	NA	**860**	53 YL	< 300
	11/30/01	**3.4 C**	< 0.5	8.8	6.5	< 2	NA	NA	NA	740	91 YL	< 300
	09/06/01	**520**	18	110	109.9	< 10	NA	NA	NA	**3,300 Z**	3,900 [3] YL,NJ	< 3,100 [3]
	05/18/01	**25**	1.9	29	28.3	< 2	NA	NA	NA	**870**	< 50	< 300
	05/27/99	**730**	43	220	232	NA	NA	NA	NA	**18,000 (J25)**	< 50	< 300
	03/09/99	**270**	39	240	400	NA	NA	NA	NA	**13,000**	< 50	< 300
	12/01/98	**4,300**	**1,400**	**11,000**	**20,000**	NA	NA	NA	NA	**910,000 (J25)**	< 50	< 300
	08/27/98	**1,900 (J18)**	**200 (J18)**	**1,700 (J18)**	**2,400 (J18)**	NA	NA	NA	NA	**56,000 (J18, J25)**	< 50	< 300
	06/11/98	**2,000**	**280**	**1,100**	**2,100**	NA	NA	NA	NA	**90,000 (J25)**	< 50	< 300
	03/17/98	**1,800**	**160**	**810**	1,500	NA	NA	NA	NA	**110,000 (J14, J25, J29)**	< 50	< 300
	12/22/97	**1,800**	**210**	**1,000**	**2,900**	NA	NA	NA	NA	**32,000 (J25)**	< 50	< 300
	09/18/97	**1,900**	< 250	**830**	**2,000**	NA	NA	NA	NA	**23,000 (J25)**	< 50	< 300
1065MW9A (shallow)	03/07/07	< 0.5	< 0.5	< 0.5	< 1	< 5.4 U	NA	NA	NA	< 50	< 50	< 300
	12/05/06	< 0.5	0.57	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
DUP1205062C	12/05/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
1065MW9ACL	12/05/06	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 2.5 U UJ	NA	NA	NA	< 50 U	< 65 U	< 390 U
	08/16/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	05/24/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0524063B	05/24/06	< 0.5	< 0.5	< 0.5	< 1	< 2 U	NA	NA	NA	< 50	< 50	< 300
1065MW9ACL	05/24/06	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 2	NA	NA	NA	< 50 U	< 530 U UJ	< 1,000 U UJ
	03/09/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0309062B	03/09/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	--	--	--	**770/443**	--	--
1065MW9A (shallow)	11/30/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	61 Y	< 300
DUP0816062A	11/30/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
1065MW9ACL	11/30/05	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 2.5 U UJ	NA	NA	NA	< 50 U	< 50 U	< 300 U
	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0830052B	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
1065MW9ACL	08/30/05	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 2.5 U	NA	NA	NA	< 50 U	< 50 U	< 300 U
	05/24/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/06/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0406052A	04/06/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	12/17/04	< 0.5	< 0.5	< 0.5	< 1	< 0.5	NA	NA	NA	< 50	< 50	< 300
	08/11/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	05/27/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	53	< 50	< 300
DUP0310042A	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	< 50	< 50	< 300
	12/08/03	0.9	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	120	< 50	< 300
DUP1208031A	12/08/03	0.7	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	130	< 50	< 300
	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/09/03	**33**	< 0.5	< 0.5	5	< 2	NA	NA	NA	350	< 50	< 300
DUP0609032C	06/09/03	**25**	< 0.5	< 0.5	5	< 2	NA	NA	NA	310	< 50	< 300
	03/18/03	**5**	0.59 C	< 0.5	1	< 2 U	NA	NA	NA	160	< 50	< 300
	11/05/02	**3.5**	< 0.5	< 0.5	0.6	< 0.5	< 0.5	ND	NA	150 YL	< 50	< 300
	10/07/02	**2.66**	< 0.2	< 0.2	2.152	< 1	< 0.5	ND	NA	370	480	< 250
1065MW9B (intermediate)	03/07/07	< 0.5	< 0.5	< 0.5	< 1	2.1 U	NA	NA	NA	< 50	< 50	< 300
	12/07/06	< 0.5	0.61	< 0.5	0.6 C	< 2	NA	NA	< 50	< 50	< 50	< 300
	08/16/06	< 0.5	< 0.5	< 0.5	< 1	3.4 C	NA	NA	NA	< 50	< 50	< 300
DUP0816062A	08/16/06	< 0.5	< 0.5	< 0.5	< 1	2.3 C	NA	NA	NA	< 50	< 50	< 300
1065MW9BCL	08/16/06	< 0.5 U UJ	< 0.5 U	< 0.5 U	< 1 U	< 2.5 U	NA	NA	NA	< 50 U	< 50 U	< 300 U
	05/25/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/09/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	11/29/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	NA	NA	NA	< 50	< 50	< 300
	05/24/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	--	--	--	**770/443**	--	--
1065MW9B (intermediate)	12/17/04	< 0.5	< 0.5	< 0.5	< 1	< 0.5	NA	NA	NA	< 50	< 50	< 300
	08/13/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0813041A	08/13/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	05/27/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0527042A	05/27/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	< 50	< 50	< 300
	12/08/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/09/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0609032B	06/09/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
1065MW9BCL	06/09/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	NA	NA	NA	< 50	< 50	< 250
	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2 U	NA	NA	NA	< 50	< 50	< 300
	11/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND	NA	120 YL	< 50	< 300
	10/07/02	< 0.2	< 0.2	< 0.2	< 0.5	< 1	< 0.5	ND	NA	340	< 50	< 250
1065MW10A (shallow)	03/07/07	< 0.5	< 0.5	< 0.5	< 1	< 2.6 U	NA	NA	NA	< 50	< 50	< 300
	03/16/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	55 HY	< 300
	04/11/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	< 50	< 50	< 300
	12/08/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	2.4	NA	NA	NA	< 50	< 50	< 300
	06/06/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2 U	NA	NA	NA	< 50	< 50	< 300
	11/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	10/07/02	< 0.2	< 0.2	< 0.2	< 0.5	< 1	< 0.5	ND	NA	< 50	< 50	< 250
1065MW10B (intermediate)	03/07/07	< 0.5	< 0.5	< 0.5	< 1	< 3.9 U	NA	NA	NA	< 50	< 50	< 300
	03/09/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/11/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	< 50	< 50	< 300
	12/03/03	< 0.5	< 0.5	< 0.5	< 0.5	7.5	NA	NA	NA	< 50	< 50	< 300
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	--	--	--	**770/443**	--	--
1065MW10B (intermediate)	06/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	< 50	< 50	< 300
DUP0318032A	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	4.6	NA	NA	NA	NA	NA	NA
1065MW10BCL	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	NA	NA	NA	< 50	< 50	< 250
	11/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	10/07/02	< 0.2	< 0.2	< 0.2	< 0.5	< 1	< 0.5	ND	NA	< 50	< 50	< 250
1065MW11A (shallow)	03/07/07	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/09/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/11/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0317042B	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/08/03	< 0.5	< 0.5	< 0.5	< 0.5	3.7	NA	NA	NA	< 50	< 50	< 300
	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	**19**	NA	NA	NA	< 50	< 50	< 300
	06/06/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2 U	NA	NA	NA	< 50	< 50	< 300
DUP0318032B	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	11/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	10/07/02	< 0.2	< 0.2	< 0.2	< 0.5	< 1	< 0.5	ND	NA	< 50	< 50	< 250
1065MW11B (intermediate)	03/07/07	< 0.5	< 0.5	< 0.5	< 1	2.1 U	NA	NA	NA	< 50	< 50	< 300
	03/07/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	190 YZ	< 50	< 300
	04/11/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/09/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/04/03	< 0.5	< 0.5	< 0.5	< 0.5	3.1 C	NA	NA	NA	< 50	< 50	< 300
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2 U	NA	NA	NA	< 50	< 50	< 300
	11/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND	NA	< 50	96 Y	< 300
	10/07/02	< 0.2	< 0.2	< 0.2	< 0.5	< 1	< 0.5	ND	NA	< 50	< 50	< 250
1065MW101A (shallow)	03/01/07	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5 UJ	ND	NA	< 50	< 50	< 300
	12/06/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	08/16/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	05/24/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	03/13/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	11/29/05	< 0.5	< 0.5	< 0.5	1	< 0.5	0.8	ND	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	--	--	--	**770/443**	--	--
1065MW101A (shallow)	08/31/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	05/26/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
DUP0526051B	05/26/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
1065MW101ACL	05/26/05	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 2 U	< 5 U	ND	NA	< 50 U	130	< 300 U
	03/29/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	12/17/04	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	08/13/04	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
1065MW102A (shallow)	03/01/07	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5 UJ	ND	NA	< 50	< 50	< 300
	12/06/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	08/16/06	0.04 J	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	NA	NA
	05/24/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	03/14/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	11/29/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	09/01/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	NA	NA
	05/24/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	03/29/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	12/15/04	< 0.5	< 0.5	< 0.5	< 1	< 2	< 0.5	ND	NA	< 50	< 50	< 300
	08/11/04	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2	ND	NA	< 50	< 50	< 300
1065MW103A	06/07/07	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	NA	NA
1027MW01	05/06/96	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 47	< 280
	02/13/96	NA	NA	NA	NA	NA	NA	NA	NA	< 50	< 51	< 310
	11/10/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 50	< 1,300
	08/16/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 50	< 1,300
	06/13/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1027MW03	05/06/96	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 49	< 290
	02/14/96	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 52	< 310
	11/10/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 50	< 1,300
	08/18/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 50	< 1,300
	06/13/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	--	--	--	**770/443**	--	--
1047MW101	03/01/07	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
DUP0301072A	03/01/07	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
1047MW101CL	03/01/07	< 0.5	< 0.5	< 0.5	< 1	< 2	< 5	ND	NA	< 50	NA	NA
	12/07/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
	08/16/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
	05/25/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
	03/07/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	51 YZ	NA	NA
DUP0307062A	03/07/06	< 0.5	< 0.5	< 0.5	< 1	< 2 U	< 5 U	ND	< 50	< 50	NA	NA
1047MW101CL	03/07/06	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 0.5	< 0.5	ND	< 100 U	< 50 U	NA	NA
	11/30/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
DUP1130052C	11/30/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
1047MW101CL	11/30/05	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 2 U	< 5 U	ND	< 100 U	< 50 U	NA	NA
	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
DUP0830052A	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
	05/26/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
DUP0526052C	05/26/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
1047MW101CL	05/26/05	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 2 U	< 5 U	ND	< 100 U	67	NA	NA
	04/06/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
	12/16/04	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
DUP1216042A	12/16/04	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
1047MW101CL	12/16/04	< 0.5 U	< 0.5 U	< 0.5 U	< 1	< 2 U	< 0.5 U	ND	< 1,000 U	< 50 U	NA	NA
	08/13/04	NA	NA	NA	NA	NA	NA	NA	< 50	< 50	NA	NA
	05/27/04	NA	NA	NA	NA	NA	NA	NA	< 50	< 50	NA	NA
DUP0527042B	05/27/04	NA	NA	NA	NA	NA	NA	NA	< 50	< 50	NA	NA
1047MW101CL	05/27/04	NA	NA	NA	NA	NA	NA	NA	NA	< 50	NA	NA
	03/11/04	NA	NA	NA	NA	NA	NA	NA	< 50	< 50	NA	NA
DUP0311042A	03/11/04	NA	NA	NA	NA	NA	NA	NA	< 50	< 50	NA	NA
1047MW101CL	03/11/04	NA	NA	NA	NA	NA	NA	NA	NA	< 50	NA	NA
	12/10/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND	< 50	< 50	NA	NA

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	--	--	--	**770/443**	--	--

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.

2 - Cleanup levels taken from Table 6 of the Building 1065 Area CAP (MACTEC, 2007d). The MTBE cleanup level listed is equal to the California Maximum Contaminant Level (EKI, 2002). Total xylenes and TPHg have two different cleanup levels dependent on if the location is inside or outside of the Ecological Buffer Zone. In both cases, the higher cleanup level applies to wells outside of the Ecological Buffer Zone (e.g. the total xylenes cleanup level for wells outside of the Ecological Buffer Zone is 1,750 µg/L, whereas the cleanup level for wells inside the Ecological Buffer Zone is 318 µg/L). Piezometers 1065PZ7A, 1065PZ7B, 1065PZ4A, and 1065PZ4B are the only Building 1065 monitoring locations located inside the Ecological Buffer Zone.

3 - TPH analysis was not run using the silica gel cleanup method 3630A, although it was marked on the chain of custody.
4 - Piezometers 1065PZ4A, 1065PZ4B, 1065PZ7A, and 1065PZ7B are located within the Ecological Buffer Zone and therefore, the lower cleanup level applies per the CAP.
-- Cleanup level not established
Bold numbers indicate concentrations that exceed cleanup levels.
µg/L - micrograms per liter
NA - Not analyzed
ND - Not detected
TPH - Total petroleum hydrocarbons
BTEX - Benzene, toluene, ethylbenzene, and total xylenes
MTBE - Methyl tert-butyl ether
H - Heavier hydrocarbons contributed to the quantitation.
L - Lighter hydrocarbons contributed to the quantitation.
Y - Sample exhibits a fuel pattern that does not resemble the standard.
Z - Sample exhibits unknown single peak or peaks.
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-11-4
Results of Dissolved Metals Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Antimony	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		**--**	**6**	**10**	**10**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
1065PZ1A (shallow)	03/01/07	< 100	< 1	**15**	NA	< 1	29,000 J	< 10	< 1	17,000	< 3	44,000	82	< 20	1,100	180,000 J	< 20	660
	12/05/06	< 100	< 1	**16**	NA	< 1	20,000	< 10	2.2	13,000	< 3	43,000	91	< 20	880 J	180,000	< 20	790 J+
	08/17/06	< 100	< 1	**24**	NA	< 1	21,000 J	< 10	< 1	16,000	< 3	50,000	64	< 20	1,600	220,000	< 20	810
	05/24/06	< 100	< 1	**21**	NA	< 1	30,000	< 10	2.6	23,000	< 3	51,000	98	< 20	1,800	220,000	40	740
	03/14/06	< 100	< 1	**11**	NA	< 1	54,000	< 10	1.2	11,000	< 3	43,000	120	< 20	1,700	140,000	< 20	750
	12/01/05	< 100	< 1	**17**	NA	< 1	22,000	< 10	< 1	15,000	< 3	49,000	110	< 20	680	190,000	< 20	760
	08/31/05	< 100 UJ	< 1	**26**	**20 J**	< 1	20,000	< 10	< 1	19,000	< 3	40,000	110	< 20	1,200	170,000	< 20	710
	06/02/05	< 100	< 1	**30**	**35.7**	< 1	36,000	< 10	< 1	25,000	< 3	49,000	160	< 20	1,900 J	190,000	< 20	720
	03/29/05	< 100	< 1	**31**	3.23	< 1	61,000	< 10	2.1	10,000	< 3	42,000	54	< 20	2,300	110,000	< 20	560
	12/17/04	NA	NA	< 5	NA	< 1	NA	< 10	< 1 U	280	< 3	NA	NA	< 20	NA	NA	< 20	710
	08/11/04	NA	NA	**23**	NA	< 1	NA	< 10	< 1	18,000	< 3	NA	NA	< 20	NA	NA	< 20	640
	05/26/04	NA	NA	**20**	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	780
	03/19/04	NA	NA	**16**	NA	< 1	NA	< 10	1.1	NA	< 3	NA	NA	< 20	NA	NA	< 20	1,490 J
	07/18/00	NA	NA	**18**	NA	< 5	NA	< 10	< 10	NA	< 3	NA	NA	< 20	NA	NA	< 20	NA
	03/08/99	NA	NA	NA	NA	NA	NA	NA	NA	7,990	NA	NA	NA	NA	NA	NA	NA	754
	11/30/98	NA	NA	NA	NA	NA	NA	NA	NA	14,200	NA	NA	NA	NA	NA	NA	NA	807
	08/26/98	NA	NA	NA	NA	NA	NA	NA	NA	6,360	NA	NA	NA	NA	NA	NA	NA	800
	06/10/98	NA	NA	NA	NA	NA	NA	NA	NA	10,700	NA	NA	NA	NA	NA	NA	NA	766
	03/16/98	NA	NA	NA	NA	NA	NA	NA	NA	1,340	NA	NA	NA	NA	NA	NA	NA	695
	12/18/97	NA	NA	NA	NA	NA	NA	NA	NA	9,740	NA	NA	NA	NA	NA	NA	NA	783
	09/17/97	NA	NA	NA	NA	NA	NA	NA	NA	9,480	NA	NA	NA	NA	NA	NA	NA	819 B
1065PZ1B (intermediate)	03/07/07	< 100	< 1	< 5	NA	< 1	51,000	< 10	< 1	220	< 3	79,000	89	< 20	38,000 J	95,000	< 20	780
	12/05/06	< 100	< 1	< 5	NA	< 1	48,000	< 10	< 1	210	< 3	67,000	78	< 20	38,000 J	82,000	< 20	750 J+
DUP1205061A	12/05/06	< 100	< 1	< 5	NA	< 1	45,000	< 10	< 1	110	< 3	64,000	68	< 20	36,000 J	78,000	< 20	770 J+
1065PZ1BCL	12/05/06	< 100 U	< 2 U	< 2 U	NA	< 1 U	57,800	< 10 U	< 2 U	138	< 1 U	85,500	80	< 2 U	43,900	96,700	< 20 U	725
	08/15/06	< 100	< 1	< 5	NA	< 1	52,000	< 10	< 1	270	< 3	77,000	86	< 20	35,000	96,000	< 20	890
	05/24/06	< 100	< 1	< 5	NA	< 1	50,000	< 10	< 1	120	< 3	75,000	91	< 20	38,000	87,000	< 20	500
	03/07/06	< 100	< 1	< 5	NA	< 1	48,000	< 10	< 1	410	< 3	75,000	86	< 20	38,000	91,000	< 20	800
	11/29/05	< 100	< 1	< 5	NA	< 1	51,000	< 10 UJ	< 1	350	< 3	74,000	73	< 20	40,000	91,000	20	640
	08/30/05	< 100 UJ	< 1	< 5	NA	< 1	43,000	< 10	< 1	190	< 3	49,000	79	< 20	50,000	60,000	< 20	630
	05/24/05	< 100 UJ	< 1	< 5	NA	< 1	52,000	< 10	< 1	270	< 3	76,000	86	< 20	40,000	97,000	< 20	750
DUP0524052A	05/24/05	< 100 UJ	< 1	< 5	NA	< 1	53,000	< 10	< 1	240	< 3	78,000	87	< 20	41,000	99,000	< 20	760
	04/05/05	< 100	< 1	< 5	NA	< 1	48,000	< 10	< 1	430	< 3	66,000	80	< 20	38,000	86,000	< 20	690
	12/17/04	NA	NA	< 5	NA	< 1	NA	< 10	< 1 U	< 100 U	< 3	NA	NA	< 20	NA	NA	< 20	780
DUP1217042B	12/17/04	NA	NA	< 5	NA	< 1	NA	< 10	< 1 U	< 100 U	< 3	NA	NA	< 20	NA	NA	< 20	770
	08/13/04	NA	NA	< 5	NA	< 1	NA	< 10	< 1	310	< 3	NA	NA	< 20	NA	NA	< 20	730
	05/27/04	NA	NA	< 5	NA	< 1	NA	< 10	< 1	330	< 3	NA	NA	< 20	NA	NA	< 20	730
	03/10/04	NA	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	680
	03/08/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	645
	11/30/98	NA	NA	NA	NA	NA	NA	NA	NA	141	NA	NA	NA	NA	NA	NA	NA	628
	08/26/98	NA	NA	NA	NA	NA	NA	NA	NA	119	NA	NA	NA	NA	NA	NA	NA	603
	08/26/98	NA	NA	NA	NA	NA	NA	NA	NA	119	NA	NA	NA	NA	NA	NA	NA	603
	06/10/98	NA	NA	NA	NA	NA	NA	NA	NA	118	NA	NA	NA	NA	NA	NA	NA	655
	03/16/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	633
	12/18/97	NA	NA	NA	NA	NA	NA	NA	NA	105	NA	NA	NA	NA	NA	NA	NA	648
	09/17/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	568 B

Table A-11-4
Results of Dissolved Metals Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Antimony	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		**--**	**6**	**10**	**10**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
1065PZ2A (shallow)	03/01/07	< 100	< 1	6.2	NA	< 1	19,000 J	< 10	< 1	8,100	< 3	29,000	1,100	< 20	3,600	71,000 J	< 20	350
	12/06/06	< 100	< 1	**14**	NA	< 1	25,000	< 10	< 1	13,000	< 3	48,000	1,500	< 20	840	65,000 J	< 20	390 J-
	08/17/06	< 100	< 1	**16**	NA	< 1	23,000 J	< 10	< 1	13,000	< 3	46,000	880	< 20	740	65,000	< 20	450
	05/24/06	< 100	< 1	**14**	NA	< 1	28,000	< 10	< 1	16,000	< 3	53,000	1,700	< 20	970	76,000	< 20	420
	03/13/06	< 100	< 1	**17**	NA	< 1	28,000	< 10	< 1	19,000	< 3	52,000	1,900	< 20	930	70,000	< 20	440
	12/01/05	< 100	< 1	**14**	NA	< 1	22,000	< 10	2.1	15,000	< 3	44,000	1,400	< 20	750	57,000	21	440
	08/30/05	< 100 UJ	< 1	**19**	**16.8**	< 1	25,000	< 10	< 1	16,000	< 3	44,000	1,200	< 20	830	60,000	< 20	380
	05/24/05	< 100 UJ	< 1	**21**	**19.2**	< 1	31,000	< 10	< 1	17,000	< 3	53,000	1,000	< 20	990	67,000	< 20	450
	04/01/05	< 100	< 1	10	8.88	< 1	32,000 J	< 10	1.1	9,600	< 3	39,000	560 J	< 20	1,200	51,000	< 20	440
DUP0401052A	04/01/05	< 100	< 1	9	9.02	< 1	32,000 J	< 10	< 1	8,600	< 3	38,000	590 J	< 20	1,100	52,000	< 20	410
	12/15/04	NA	NA	6.8	NA	< 1	NA	< 10	< 1	3,300	< 3	NA	NA	< 20	NA	NA	88	410
	08/11/04	NA	NA	**19**	NA	< 1	NA	< 10	< 1	16,000	< 3	NA	NA	< 20	NA	NA	< 20	380
	05/25/04	NA	NA	**18**	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	940
	03/15/04	NA	NA	**16**	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	430
	07/18/00	NA	NA	**25**	NA	< 5	NA	< 10	< 10	NA	< 3	NA	NA	< 20	NA	NA	< 20	NA
	03/03/99	NA	NA	NA	NA	NA	NA	NA	NA	8,800	NA	NA	NA	NA	NA	NA	NA	514
	11/24/98	NA	NA	NA	NA	NA	NA	NA	NA	13,700	NA	NA	NA	NA	NA	NA	NA	533 B
	08/25/98	NA	NA	NA	NA	NA	NA	NA	NA	8,580	NA	NA	NA	NA	NA	NA	NA	3,720
	06/09/98	NA	NA	NA	NA	NA	NA	NA	NA	14,400	NA	NA	NA	NA	NA	NA	NA	572
	03/12/98	NA	NA	NA	NA	NA	NA	NA	NA	13,900	NA	NA	NA	NA	NA	NA	NA	472
	12/17/97	NA	NA	NA	NA	NA	NA	NA	NA	15,100	NA	NA	NA	NA	NA	NA	NA	555
	09/16/97	NA	NA	NA	NA	NA	NA	NA	NA	11,400	NA	NA	NA	NA	NA	NA	NA	598
1065PZ2B (intermediate)	3/6/2007	< 100	< 1	< 5	NA	< 1	25,000	< 10	< 1	< 100	< 3	37,000	10	< 20	1,000	45,000	< 20	390
	03/07/06	< 100	< 1	< 5	NA	< 1	22,000	13	< 1	140	< 3	35,000	< 10	< 20	1,000	47,000	< 20	350
	04/05/05	< 100	< 1	< 5	NA	< 1	23,000	10	< 1	150	< 3	31,000	< 10	< 20	930	46,000	21	330
	03/10/04	NA	NA	< 5	NA	< 1	NA	11	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	340
	03/03/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	355
	11/24/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	365 B
	08/25/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	353
	06/09/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	372
	03/12/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	359
	12/17/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	405
	09/16/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	410
1065PZ3A (shallow)	03/01/07	< 100	< 1	< 5	NA	< 1	46,000 J	< 10	< 1	< 100	< 3	51,000	14	< 20	1,300	24,000 J	< 20	360
	03/13/06	< 100	< 1	< 5	NA	< 1	35,000	< 10	2.6	120	< 3	42,000	< 10	< 20	1,700	24,000	< 20	310
	04/05/05	< 100	< 1	< 5	NA	< 1	65,000	< 10	2	430	< 3	72,000	< 10	< 20	2,200	55,000	< 20	640
DUP0405052A	04/05/05	< 100	< 1	< 5	NA	< 1	63,000	< 10	2.1	410	< 3	70,000	< 10	< 20	2,200	52,000	< 20	580
1065PZ3ACL	04/05/05	< 100 U	< 2 U	< 2 U	NA	< 1 U	66,700	< 10 U	< 2 U	< 100 U	< 1 U	79,200	< 10 U	8.4	< 5,000 U	60,700	< 20 U	704
	03/15/04	NA	NA	< 5	NA	< 1	NA	23	1.3	NA	< 3	NA	NA	< 20	NA	NA	< 20	560
	07/18/00	NA	NA	< 5	NA	< 5	NA	13	< 10	NA	< 3	NA	NA	< 20	NA	NA	< 20	NA
	03/01/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	328
	11/23/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	365 B
	08/24/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	325
	06/08/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	341
	03/11/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	491
	12/16/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	410

Table A-11-4
Results of Dissolved Metals Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Antimony	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		--	**6**	**10**	**10**	--	--	--	--	--	--	--	--	--	--	--	--	--
1065PZ3B (intermediate) DUP0228072A	02/28/07	< 100	< 1	< 5	NA	< 1	35,000	27	< 1	< 100	< 3	46,000	< 10	< 20	< 500	62,000	< 20	480
	02/28/07	< 100	< 1	< 5	NA	< 1	37,000	27	< 1	< 100	< 3	48,000	< 10	< 20	< 500	64,000	< 20	480
	03/09/06	< 100	< 1	< 5	NA	< 1	34,000	34	1	240	< 3	51,000	< 10	< 20	< 500 UJ	67,000	< 20	1,930
	04/06/05	< 100	< 1	< 5	NA	< 1	35,000	29	< 1	< 100	< 3	47,000	< 10	< 20	< 500	63,000	< 20	480
	03/10/04	NA	NA	< 5	NA	< 1	NA	33	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	490
	03/01/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	610
	11/23/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	608 B
	08/24/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	595
	06/08/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	612
	03/11/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	485
	12/16/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	553
	09/15/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	533
1065PZ4A (shallow)	03/01/07	< 100	< 1	**12**	NA	< 1	58,000 J	< 10	< 1	37,000	< 3	73,000	2100	< 20	6,600	110,000 J	< 20	670
	12/06/06	< 100	< 1	**14**	NA	< 1	60,000	< 10	< 1	30,000	< 3	77,000	2,000	< 20	7,700	120,000 J	< 20	660 J-
	08/17/06	< 100	< 1	**12**	NA	< 1	45,000 J	< 10	< 1	23,000	< 3	64,000	1,700	< 20	6,800	120,000	< 20	740
	05/24/06	< 100	< 1	7.9	NA	< 1	43000	< 10	1.7	21,000	< 3	48000	1800	< 20	5400	150,000	26	580
	03/09/06	< 100	< 1	8.9	NA	< 1	47,000	< 10	< 1	29,000	< 3	89,000	1,700	< 20	5,700 J	100,000	< 20	780
	11/29/05	< 100	< 1	**13**	NA	< 1	51,000	< 10 UJ	< 1	28,000	< 3	72,000	1,900	< 20	6,000	110,000	< 20	650
	08/30/05	< 100 UJ	< 1	**13**	**11.9**	< 1	45,000	< 10	< 1	22,000	< 3	58,000	1600	< 20	5,700	100,000	< 20	550
	06/02/05	< 100	< 1	9.6	9.33	< 1	44,000	< 10	< 1	23,000	< 3	58,000	1,600	< 20	5,200 J	99,000	< 20	590
	04/01/05	< 100	< 1	7.6	6.7	< 1	40,000 J	< 10	< 1	20,000	< 3	58,000	1,400 J	< 20	5,300	83,000	< 20	540
	03/15/04	NA	NA	**14**	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	670
	07/17/00	NA	NA	**14**	NA	< 5	NA	< 10	< 10	NA	< 3	NA	NA	< 20	NA	NA	< 20	NA
	03/08/99	NA	NA	NA	NA	NA	NA	NA	NA	12,800	NA	NA	NA	NA	NA	NA	NA	522
	12/01/98	NA	NA	NA	NA	NA	NA	NA	NA	23,700	NA	NA	NA	NA	NA	NA	NA	556
	08/27/98	NA	NA	NA	NA	NA	NA	NA	NA	16,500	NA	NA	NA	NA	NA	NA	NA	3,620
	06/11/98	NA	NA	NA	NA	NA	NA	NA	NA	14,300	NA	NA	NA	NA	NA	NA	NA	577
	03/17/98	NA	NA	NA	NA	NA	NA	NA	NA	14,700	NA	NA	NA	NA	NA	NA	NA	528
	12/22/97	NA	NA	NA	NA	NA	NA	NA	NA	25,600	NA	NA	NA	NA	NA	NA	NA	587
	09/18/97	NA	NA	NA	NA	NA	NA	NA	NA	22,800	NA	NA	NA	NA	NA	NA	NA	608 B
1065PZ4B (intermediate)	03/01/07	< 100	< 1	< 5	NA	< 1	27,000 J	31	1.2	< 100	< 3	53,000	< 10	< 20	840	59,000 J	< 20	420
	03/13/06	< 100	< 1	< 5	NA	< 1	25,000	25	1.8	< 100	< 3	57,000	< 10	< 20	880	59,000	< 20	240
	04/05/05	< 100	< 1	< 5	NA	< 1	24,000	25	< 1	150	< 3	51,000	< 10	< 20	800	55,000	< 20	470
	03/17/04	NA	NA	< 5	NA	< 1	NA	24 J	2.3	NA	< 3	NA	NA	< 20	NA	NA	< 20	480
	03/08/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	482
	12/01/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	468
	08/27/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	4,160
	06/11/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	458
	03/17/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	450
	12/22/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	451
	09/18/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	434 B
1065PZ5AR (shallow)	03/01/07	< 100	< 1	**27**	NA	< 1	81,000 J	< 10	< 1	32,000	< 3	75,000	1,900	< 20	5,900	86,000 J	< 20	690
	12/07/06	< 100	< 1	**32**	NA	< 1	79,000	< 10	< 1	26,000	< 3	81,000	2,000	< 20	6,700	87,000 J	< 20	730
	08/16/06	< 100	< 1	**40**	NA	< 1	87,000	< 10	< 1	24,000	< 3	85,000	1,900	< 20	7,500	94,000	< 20	830
	05/24/06	< 100	< 1	**26**	NA	< 1	74,000	< 10	< 1	19,000	< 3	77,000	2,100	< 20	6500	91,000	< 20	770
	03/07/06	< 100	< 1	**24**	NA	< 1	70,000	< 10	< 1	23,000	< 3	77,000	2,000	< 20	5,800	83,000	< 20	820
DUP0307062B 1065PZ5ARCL	03/07/06	< 100	< 1	**21**	NA	< 1	69,000	< 10	< 1	19,000	< 3	81,000	2,000	< 20	6,100	86,000	< 20	950
	03/07/06	< 100 U	< 2 U	**15**	NA	< 1 U	80,000	< 10 U	< 2 U	13,000	< 1 U	86,000	2,100	5.5	6,000	99,000	< 20 U	1,170 J+
	11/29/05	< 100	< 1	**34 J**	NA	< 1	88,000 J	< 10	< 1	27,000 J	< 3	87,000	2,800 J	< 20	6,600	91,000 J	< 20	930
	08/30/05	NA	NA	NA	**42**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	760
	05/24/05	NA	NA	NA	**24.5**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	820

Table A-11-4
Results of Dissolved Metals Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Antimony	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		**--**	**6**	**10**	**10**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
1065PZ5AR (shallow)	04/11/05	< 100	< 1	**33**	**26.4**	< 1	90,000	< 10	< 1	32,000	< 3	89,000	2,600	< 20	6,900	95,000	< 20	930
	03/10/04	NA	NA	**22**	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	850
1065PZ5B (intermediate)	03/01/07	< 100	< 1	< 5	NA	< 1	31,000 J	21	< 1	< 100	< 3	38,000	< 10	< 20	< 500	54,000 J	< 20	430
	03/13/06	< 100	< 1	< 5	NA	< 1	31,000	21	1	110	< 3	44,000	< 10	< 20	500	60,000	23	430
	04/11/05	< 100	< 1	< 5	NA	< 1	27,000	17	< 1	< 100	< 3	36,000	< 10	< 20	530	58,000	< 20	800
	03/10/04	NA	NA	< 5	NA	< 1	NA	14	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	370
	03/03/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	368
	11/24/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	331 B
	08/25/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	320
	06/09/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	323
	03/12/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	300
	12/17/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	321
	09/16/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	348
1065PZ6A (shallow)	04/06/05	< 100	< 1	< 5	NA	< 1	40,000	37	< 1	< 100	< 3	53,000	< 10	< 20	510	81,000	< 20	630
	03/17/04	NA	NA	< 5	NA	< 1	NA	30 J	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	570
	07/17/00	NA	NA	< 5	NA	< 5	NA	43	< 10	NA	< 3	NA	NA	< 20	NA	NA	< 20	NA
	03/01/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	576
	11/23/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	555 B
	08/24/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	539
	06/08/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	554
	03/11/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	557
	12/16/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	556
	09/15/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	579
1065PZ6B (intermediate)	03/07/07	< 100	< 1	< 5	NA	< 1	39,000	43	< 1	< 100	< 3	47,000	< 10	< 20	990 J	57,000	< 20	460
	03/10/06	< 100	< 1	< 5	NA	< 1	38,000	40	< 1	200	< 3	54,000	< 10	< 20	700 J	68,000	< 20	660
	04/05/05	< 100	< 1	< 5	NA	< 1	43,000	38	< 1	260	< 3	51,000	< 10	< 20	530	59,000	< 20	490
	03/09/04	NA	NA	< 5	NA	< 1	NA	42	< 1	< 100	< 3	NA	NA	< 20	NA	NA	27	510
	03/01/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	465
	11/23/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	457 B
	08/24/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	491
	06/08/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	475
	03/11/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	484
	12/16/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	517
	09/15/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	511
1065PZ7A (shallow)	02/27/07	< 100	< 1	< 5	NA	< 1	51,000	< 10	1.5	< 100	< 3	81,000	18	< 20	610	41,000	< 20	650
DUP0227072B	02/27/07	< 100	< 1	< 5	NA	< 1	51,000	< 10	1.3	< 100	< 3	92,000	15	< 20	< 500	43,000	< 20	650
	03/15/06	< 100	< 1	< 5	NA	1.1	44,000	19	< 1	< 100	< 3	54,000	< 10	< 20	850	63,000	< 20	370 J
	04/06/05	< 100	< 1	< 5	NA	< 1	45,000	< 10	1.1	< 100	< 3	81,000	< 10	< 20	< 500	38,000	< 20	530
	03/17/04	NA	NA	< 5	NA	< 1	NA	< 10 UJ	2.1	NA	< 3	NA	NA	< 20	NA	NA	< 20	540
	07/17/00	NA	NA	< 5	NA	< 5	NA	< 10	< 10	NA	< 3	NA	NA	< 20	NA	NA	< 20	NA
	03/08/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	391
	12/01/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	375
	08/26/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	374
	06/10/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	472
	03/16/98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	373
	12/18/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	374
	09/17/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	358 B

Table A-11-4
Results of Dissolved Metals Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Antimony	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		**--**	**6**	**10**	**10**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
1065PZ7B (intermediate)	03/01/07	< 100	< 1	< 5	NA	< 1	64,000 J	30	1.6	< 100	< 3	83,000	< 10	< 20	500	94,000 J	< 20	840
	03/15/06	< 100	< 1	< 5	NA	< 1	42,000	< 10	< 1	< 100	< 3	95,000	< 10	< 20	< 500	40,000	< 20	650 J
	04/06/05	< 100	< 1	< 5	NA	< 1	43,000	26	< 1	< 100	< 3	60,000	< 10	< 20	< 500	74,000	< 20	570
	03/17/04	NA	NA	< 5	NA	< 1	NA	31 J	3.3	120	< 3	NA	NA	< 20	NA	NA	< 20	540
	03/08/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	460
	12/01/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	434
	08/26/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	487
	06/10/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	575
	03/16/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	508
	12/18/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	505
	09/17/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	493 B
1065MW9A (shallow)	03/07/07	< 100	< 1	< 5	NA	< 1	60,000	< 10	< 1	4,500	< 3	88,000	480	< 20	16,000 J	66,000	< 20	680
	12/05/06	< 100	< 1	**27**	NA	< 1	55,000	< 10	< 1	3,700	< 3	78,000	460	< 20	16,000 J	67,000	< 20	760 J+
DUP1205062C	12/05/06	< 100	< 1	**23**	NA	< 1	56,000	< 10	< 1	2,800	< 3	78,000	450	< 20	16,000 J	64,000	< 20	750 J+
1065MW9ACL	12/05/06	< 100 U	< 2 U	**16**	NA	< 1 U	67,600	< 10 U	< 2 U	4,480	< 1 U	99,800	498	2.6	19,600	79,400	< 20 U	743
	08/16/06	< 100	< 1	10	NA	< 1	58,000	< 10	< 1	5,100	< 3	94,000	460	< 20	18,000	75,000	< 20	710
	05/24/06	< 100	< 1	6.8	NA	< 1	61,000	< 10	< 1	5,900	< 3	93,000	540	< 20	17,000	68,000	< 20	770
DUP0524063B	05/24/06	< 100	< 1	6.9	NA	< 1	65,000	< 10	< 1	6,200	< 3	99,000	550	< 20	18,000	72,000	< 20	890
1065MW9ACL	05/24/06	< 100 U	< 2 U	7.5	NA	< 1 U	69,900	< 10 U	< 2 U	7,160 J+	< 1 U	102,000	563	2.6	17,800	76,100	< 20 U	694
	03/09/06	< 100	< 1	5.3	NA	< 1	54,000	< 10	< 1	5,400	< 3	90,000	570	< 20	13,000 J	69,000	< 20	870
DUP0309062B	03/09/06	< 100	< 1	6.3	NA	< 1	53,000	< 10	< 1	6,100	< 3	90,000	600	< 20	12,000 J	69,000	< 20	790
	11/30/05	< 100	< 1	< 5	NA	< 1	57,000	< 10	< 1	3,100	< 3	80,000	460	< 20	14,000	64,000	< 20	820
DUP1130052B	11/30/05	< 100	< 1	< 5	NA	< 1	61,000	< 10	< 1	3,000	< 3	87,000	500	< 20	14,000	70,000	< 20	760
1065MW9ACL	11/30/05	< 100 U	< 2 U	4.4	NA	< 1 U	70,000	< 10 U	< 2 U	3,400	< 1 U	96,000	580	< 2 U	17,000 N	74,000	< 20 U	805
	08/30/05	< 100 UJ	< 1	7.4	8.5	< 1	53,000	< 10	< 1	5,400	< 3	75,000	470	< 20	15,000	59,000	< 20	730
DUP0830052B	08/30/05	< 100 UJ	< 1	8.2	6.9	< 1	56,000	< 10	< 1	5,700	< 3	79,000	520	< 20	14,000	64,000	< 20	730
1065MW9ACL	08/30/05	< 100 U	< 2 U	6.32	NA	< 1 U	63,900	< 10 U	< 2 U	4,840	< 1 U	93,300	564	< 2 U	16,100	72,800	< 20 U	779
	05/24/05	< 100 UJ	< 1	8.5	2.23	< 1	64,000	< 10	< 1	3,500	< 3	91,000	540	< 20	14,000	70,000	< 20	810
	04/06/05	< 100	< 1	10	8.23	< 1	58,000	< 10	< 1	6,100	< 3	85,000	500	< 20	15,000	66,000	< 20	770
DUP0406052A	04/06/05	< 100	< 1	7.1	4.36	< 1	62,000	< 10	< 1	3,600	< 3	91,000	450	< 20	17,000	70,000	< 20	670
	12/17/04	NA	NA	8.6	NA	< 1	NA	< 10	19	5,700	< 3	NA	NA	< 20	NA	NA	< 20	810
	08/11/04	NA	NA	7.7	NA	< 1	NA	< 10	< 1	5,400	< 3	NA	NA	< 20	NA	NA	< 20	810
	05/27/04	NA	NA	7.1	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	730
	03/10/04	NA	NA	7.9	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	720
DUP0310042A	03/10/04	NA	NA	6.9	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	700
	11/05/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3 J	NA	NA	NA	NA	NA	NA	NA
	10/07/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.4 J	NA	NA	NA	NA	NA	NA	NA
1065MW9B (intermediate)	03/07/07	< 100	< 1	< 5	NA	< 1	38,000.00	40	< 1	< 100	< 3	52,000	< 10	< 20	740 J	52,000	< 20	490
	12/07/06	< 100	< 1	< 5	NA	< 1	38,000	36	< 1	< 100	< 3	54,000	< 10	< 20	780	55,000 J	< 20	500
	08/16/06	< 100	< 1	< 5	NA	< 1	37,000	34	1	< 100	< 3	54,000	< 10	< 20	750	56,000	< 20	490
DUP0816062A	08/16/06	< 100	< 1	< 5	NA	< 1	38,000	33	< 1	< 100	< 3	56,000	< 10	< 20	710	60,000	< 20	490
1065MW9BCL	08/16/06	< 100 U	< 60 U	< 100 U	NA	< 5 U	40,100	38	< 20 U	< 100 U	< 50 U	57,000	< 10 U	< 40 U	1110 B	60,800	9 B	505
	05/25/06	< 100 UJ	< 1	< 5	NA	< 1	37,000	38	< 1	< 100	< 3	50,000	< 10	< 20	730	55,000	< 20	430
	05/25/06	< 100 UJ	< 1	< 5	NA	< 1	37,000	38	< 1	< 100	< 3	50,000	< 10	< 20	730	55,000	< 20	430
	03/09/06	< 100	< 1	< 5	NA	< 1	34,000	36	< 1	220	< 3	53,000	< 10	< 20	720 J	59,000	25	570
	11/29/05	< 100	< 1	< 5	NA	< 1	35,000	31 J	< 1	120	< 3	48,000	< 10	< 20	690	52,000	< 20	110
	11/29/05	< 100	< 1	< 5	NA	< 1	35,000	31 J	< 1	120	< 3	48,000	< 10	< 20	690	52,000	< 20	110
	08/30/05	< 100 UJ	< 1	< 5	NA	< 1	32,000	30	< 1	160	< 3	41,000	< 10	< 20	740	47,000	85	470
	05/24/05	< 100 UJ	< 1	< 5	NA	< 1	38,000	34	< 1	< 100	< 3	48,000	< 10	< 20	740	54,000	< 20	490
	04/06/05	< 100	< 1	< 5	NA	< 1	36,000	32	< 1	< 100	< 3	46,000	< 10	< 20	670	51,000	< 20	480

Table A-11-4
Results of Dissolved Metals Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Antimony	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		**--**	**6**	**10**	**10**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
1065MW9B (intermediate)	12/17/04	NA	NA	< 5	NA	< 1	NA	33	< 1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	500
	08/13/04	NA	NA	< 5	NA	< 1	NA	31	< 1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	500
DUP0813041A	08/13/04	NA	NA	< 5	NA	< 1	NA	32	< 1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	460
	05/27/04	NA	NA	< 5	NA	< 1	NA	32	< 1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	450
DUP0527042A	05/27/04	NA	NA	< 5	NA	< 1	NA	31	< 1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	450
	03/10/04	NA	NA	< 5	NA	< 1	NA	29	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	480
	11/05/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3 J	NA	NA	NA	NA	NA	NA	NA
	10/07/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3	NA	NA	NA	NA	NA	NA	NA
1065MW10A (shallow)	03/07/07	< 100	< 1	< 5	NA	< 1	28,000	< 10	< 1	12,000	< 3	34,000	360	< 20	1,700 J	53,000	< 20	400
	03/16/06	< 100 UJ	< 1	< 5	NA	< 1	29,000	< 10	< 1	13,000	< 3	35,000	520	< 20	1,900	57,000 J	< 20	520 J
	04/11/05	< 100	< 1	< 5	NA	< 1	31,000	< 10	< 1	16,000	< 3	36,000	560	< 20	2,000	60,000	< 20	430
	03/10/04	NA	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	380
	11/05/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3 J	NA	NA	NA	NA	NA	NA	NA
	10/07/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3	NA	NA	NA	NA	NA	NA	NA
1065MW10B (intermediate)	03/07/07	< 100	< 1	< 5	NA	< 1	37,000	40	< 1	< 100	< 3	50,000	< 10	< 20	560 J	55,000	< 20	530
	03/09/06	< 100	< 1	< 5	NA	< 1	32,000	37	< 1	190	< 3	47,000	< 10	< 20	550 J	57,000	< 20	510
	04/11/05	< 100	< 1	< 5	NA	< 1	38,000	36	< 1	< 100	< 3	48,000	< 10	< 20	560	60,000	< 20	470
	03/10/04	NA	NA	< 5	NA	< 1	NA	26	1.2	NA	< 3	NA	NA	< 20	NA	NA	< 20	520
	11/05/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3 J	NA	NA	NA	NA	NA	NA	NA
	10/07/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3	NA	NA	NA	NA	NA	NA	NA
1065MW11A (shallow)	03/07/07	< 100	< 1	< 5	NA	< 1	28,000	31	< 1	< 100	< 3	35,000	< 10	< 20	570 J	50,000	< 20	360
	03/09/06	< 100	< 1	< 5	NA	< 1	16,000	12	< 1	120	< 3	18,000	< 10	< 20	< 500 UJ	31,000	< 20	860
	04/11/05	< 100	< 1	< 5	NA	< 1	36,000	32	< 1	< 100	< 3	45,000	< 10	< 20	750	66,000	< 20	500
	03/17/04	NA	NA	< 5	NA	< 1	NA	10 J	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	190
DUP0317042B	03/17/04	NA	NA	< 5	NA	< 1	NA	12 J	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	250
	11/05/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3 J	NA	NA	NA	NA	NA	NA	NA
	10/07/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3	NA	NA	NA	NA	NA	NA	NA
1065MW11B (intermediate)	03/07/07	< 100	< 1	< 5	NA	< 1	48,000	41	< 1	< 100	< 3	48,000	< 10	< 20	700 J	54,000	< 20	510
	03/07/06	< 100	< 1	< 5	NA	< 1	43,000	38	2.5	200	< 3	47,000	< 10	< 20	700	54,000	< 20	860
	04/11/05	< 100	< 1	< 5	NA	< 1	54,000	38	< 1	< 100	< 3	46,000	< 10	< 20	790	61,000	< 20	600
	03/09/04	NA	NA	< 5	NA	< 1	NA	40	< 1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	510
	11/05/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3 J	NA	NA	NA	NA	NA	NA	NA
	10/07/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3	NA	NA	NA	NA	NA	NA	NA
1065MW101A (shallow)	03/01/07	< 100	< 1	**24**	NA	< 1	22,000 J	< 10	< 1	22,000	< 3	38,000	57	< 20	5,800	210,000 J	< 20	760
	12/06/06	< 100	< 1	**28**	NA	< 1	23,000	< 10	< 1	19,000	< 3	43,000	53	< 20	6,600	230,000 J	< 20	690 J-
	08/16/06	< 100	< 1	**31**	NA	< 1	22,000	< 10	< 1	18,000	< 3	42,000	64	< 20	7,300	230,000	< 20	910
	05/24/06	< 100	< 1	**26**	NA	< 1	23,000	< 10	< 1	22,000	< 3	43,000	66	< 20	7,300	230,000	< 20	830
	03/13/06	< 100	< 1	**24**	NA	< 1	19,000	< 10	< 1	19,000	< 3	38,000	51	< 20	5,700	200,000	< 20	660
	11/29/05	< 100	< 1	**28**	NA	< 1	20,000	< 10 UJ	< 1	19,000	< 3	38,000	59	< 20	6,000	240,000	< 20	1,020
	08/31/05	< 100 UJ	< 1	**30**	**24.8 J**	< 1	19,000	< 10	< 1	18,000	< 3	35,000	79	< 20	7,200	240,000	< 20	960
	05/26/05	< 100	< 1	**26**	**22.9**	< 1	20,000	< 10	< 1	19,000	< 3	46,000 J	100	< 20	6,700	300,000 J	< 20	720
DUP0526051B	05/26/05	< 100	< 1	**26**	**21.3**	< 1	24,000	< 10	< 1	19,000	< 3	41,000 J	100	< 20	6,800	280,000 J	< 20	670
1065MW101ACL	05/26/05	< 100 U	< 2 U	**24**	NA	< 10 U	20,500	< 10 U	< 2 U	17,700	< 1 U	40,000	86.8	11.9	7,510	272,000	< 20 U	965
	03/29/05	< 100	< 1	**23**	**17**	< 1	22,000	< 10	3.7	19,000	< 3	45,000	130	< 20	6,400	260,000	< 20	900
	12/17/04	NA	NA	**21**	NA	< 1	NA	< 10	< 1 U	13,000	< 3	NA	NA	< 20	NA	NA	< 20	NA
	08/13/04	NA	NA	**25**	NA	< 1	NA	< 10	1.1	4,000	< 3	NA	NA	25	NA	NA	< 20	NA
1065MW102A (shallow)	03/01/07	< 100	< 1	< 5	NA	< 1	18,000 J	< 10	< 1	1,300	< 3	12,000	250	< 20	3,400	76,000 J	< 20	140
	12/06/06	< 100	< 1	6.3	NA	< 1	28,000	< 10	< 1	1,400	< 3	25,000	460	< 20	5,800	130,000 J	< 20	320 J-
	08/16/06	< 100	< 1	9.6	NA	< 1	29,000	< 10	1.3	130	< 3	24,000	390	< 20	7,900	190,000	< 20	680
	05/24/06	< 100	< 1	**11**	NA	< 1	25,000	< 10	< 1	9,500	< 3	41,000	150	33	3,600	200,000	< 20	560

Table A-11-4
Results of Dissolved Metals Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Antimony	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		**--**	**6**	**10**	**10**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
1065MW102A (shallow)	03/14/06	< 100	< 1	6.8	NA	< 1	14,000	< 10	< 1	1,300	< 3	14,000	180	< 20	4,800	120,000	< 20	450
	11/29/05	< 100	< 1	< 5	NA	< 1	18,000	< 10 UJ	7.8	< 100	< 3	5,900	14	< 20	2,300	23,000	< 20	170
	05/24/05	< 100 UJ	< 1	8.2	4.32	< 1	17,000	< 10	< 1	550	< 3	14,000	220	< 20	7,800	140,000	< 20	470
	03/29/05	< 100	< 1	6.5	5.8	< 1	22,000	< 10	6.9	370	< 3	15,000	220	< 20	6,800	130,000	< 20	340
	12/15/04	NA	NA	**11**	NA	< 1	NA	< 10	< 1	570	< 3	NA	NA	< 20	NA	NA	< 20	NA
	08/11/04	NA	NA	**16**	NA	< 1	NA	< 10	11	150	< 3	NA	NA	< 20	NA	NA	25	NA
1065MW103A	06/07/07	< 100	NA	< 5	NA	NA	NA	NA	NA	110	NA	NA	850	NA	NA	NA	NA	820
1027MW01	07/17/00	NA	NA	< 5	NA	< 5	NA	11	< 10	NA	< 3	NA	NA	< 20	NA	NA	< 20	NA
1027MW03	07/17/00	NA	NA	< 5	NA	< 5	NA	12	< 10	NA	< 3	NA	NA	< 20	NA	NA	< 20	NA
1047MW101	03/01/07	< 100	< 1	< 5	NA	< 1	8,000 J	< 10	< 1	< 100	< 3	6,800	< 10	< 20	1,400	7,100 J	< 20	< 10
DUP0301072A	03/01/07	< 100	< 1	< 5	NA	< 1	8,500 J	< 10	< 1	< 100	< 3	6,600	< 10	< 20	1,400	7,500 J	< 20	88
1047MW101CL	03/01/07	< 50	0.86	1.1	NA	< 0.02	7,340	< 5	1.6	< 20	0.05	6,410	< 5	1.7	< 2,000	6,970	< 10	52 J-
	03/07/06	< 100	< 1	< 5	NA	< 1	4,300	< 10	2.3	< 100	< 3	4,500	< 10	< 20	1,300	3,100	< 20	180
DUP0307062A	03/07/06	< 100	< 1	< 5	NA	< 1	4,400	< 10	2.5	< 100	< 3	4,700	< 10	< 20	1,300	3,200	< 20	130
1047MW101CL	03/07/06	< 100 U	< 2 U	< 2 U	NA	< 1 U	5,000	< 10 U	< 2 U	< 100 U	< 1 U	4,700	< 10 U	< 2 U	< 5,000 U	< 5,000 U	< 20 U	186 J+
	04/06/05	< 100	< 1	< 5	NA	< 1	5,700	< 10	1.7	< 100	< 3	5,200	< 10	< 20	1,200	< 500 U	< 20	110
	03/11/04	NA	NA	< 5	NA	< 1	NA	< 10	1	100	< 3	NA	NA	< 20	NA	NA	< 20	350
DUP0311042A	03/11/04	NA	NA	< 5	NA	< 1	NA	< 10	1.1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	310
1047MW101CL	03/11/04	NA	NA	< 5	NA	< 1	NA	< 10	< 10	< 500	< 3	NA	NA	< 10	NA	NA	< 20	150 HT-04,J

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - From Table 6 of the CAP (MACTEC, 2007d).
µg/L - micrograms per liter
mg/L - milligrams per liter
NA - Not analyzed
-- Cleanup level not established
Bold concentrations indicate cleanup level exceedances.
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historic data qualifiers.

Table A-11-5
Results of Dissolved Gas and TOC Analyses
Building 1065 Area
Presidio of San Francisco, California

Location ID	Sample Date	Ethane	Ethene	Methane	TOC
	Analytical Method[1]	RSK 175	RSK 175	RSK 175	SW9060
		(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065PZ1A (shallow)	03/14/06	NA	NA	NA	11
	12/01/05	< 0.005	< 0.005	14 J-	25
	08/31/05	< 0.005	< 0.005	13	24
	06/02/05	< 0.005	< 0.005	10	20
	03/29/05	< 0.005	< 0.005	4	11
	03/08/99	< 0.003	< 0.003	7	NA
	11/30/98	< 1.5	< 1.5	10	NA
	08/26/98	< 0.003	< 0.003	8.6	NA
	06/10/98	< 0.25	< 0.25	4.4	NA
	03/16/98	< 0.25 DU	< 0.25 DU	3.3	NA
	12/18/97	< 0.5 DU	< 0.5 DU	13.4	NA
	09/17/97	< 0.5 DU	< 0.5 DU	15.5 D	NA
1065PZ1B (intermediate)	03/08/99	< 0.003	< 0.003	< 0.003	NA
	11/30/98	< 0.006	< 0.006	0.079	NA
	08/26/98	< 0.003	< 0.003	0.0097	NA
	08/26/98	< 0.003	< 0.003	0.0097	NA
	06/10/98	< 0.0005	< 0.0005	0.0017	NA
	03/16/98	< 0.0025 DU	< 0.0025 DU	0.0284 D	NA
	12/18/97	< 0.025 DU	< 0.025 DU	0.196 D	NA
	09/17/97	< 0.0025 DU	< 0.0025 DU	0.0559 D	NA
1065PZ2A (shallow)	03/13/06	NA	NA	NA	8.2
	12/01/05	< 0.005	< 0.005	8.9 J-	10
	08/30/05	< 0.005	< 0.005	11	8.8
	05/24/05	< 0.005	< 0.005	12	12
	04/01/05	< 0.005	< 0.005	4.8	7.8
DUP0401052A	04/01/05	< 0.005	< 0.005	4.3	7.8
	03/03/99	< 0.003	< 0.003	7	NA
	11/24/98	< 0.6	< 0.6	6.6	NA
	08/25/98	< 1.5	< 1.5	12	NA
	06/09/98	< 0.6 DU	< 0.6 DU	9.000 D	NA
	03/12/98	< 0.25 DU	< 0.25 DU	4.290 D	NA
	12/17/97	< 2.5 DU	< 2.5 DU	18.1 D	NA
	09/16/97	< 0.5 DU	< 0.5 DU	8.4 D	NA
1065PZ2B (intermediate)	03/03/99	< 0.003	< 0.003	< 0.003	NA
	11/24/98	< 0.003	< 0.003	< 0.003	NA
	08/25/98	< 0.003	< 0.003	0.0041	NA
	06/09/98	< 0.0005	< 0.0005	0.0008	NA
	03/12/98	< 0.0005	< 0.0005	< 0.0005	NA
	12/17/97	< 0.0005	< 0.0005	0.0007	NA
	09/16/97	< 0.001 DU	< 0.001 DU	0.0214 D	NA
1065PZ3A (shallow)	03/01/99	< 0.003	< 0.003	< 0.003	NA
	11/23/98	< 0.003	< 0.003	< 0.003	NA
	08/24/98	< 0.003	< 0.003	< 0.003	NA
	06/08/98	< 0.0005	< 0.0005	0.0006	NA
	03/11/98	< 0.0005	< 0.0005	< 0.0005	NA
	12/16/97	< 0.0005	< 0.0005	< 0.0005	NA

Table A-11-5
Results of Dissolved Gas and TOC Analyses
Building 1065 Area
Presidio of San Francisco, California

Location ID	Sample Date	Ethane	Ethene	Methane	TOC
	Analytical Method[1]	RSK 175	RSK 175	RSK 175	SW9060
		(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065PZ3B (intermediate)	03/01/99	< 0.003	< 0.003	< 0.003	NA
	11/23/98	< 0.003	< 0.003	< 0.003	NA
	08/24/98	< 0.003	< 0.003	< 0.003	NA
	06/08/98	< 0.0005	< 0.0005	< 0.0005	NA
	03/11/98	< 0.0005	< 0.0005	< 0.0005	NA
	12/16/97	< 0.0005	< 0.0005	< 0.0005	NA
	09/15/97	< 0.0005	< 0.0005	0.0063	NA
1065PZ4A (shallow)	03/09/06	NA	NA	NA	12
	11/29/05	< 0.005	< 0.005	16	8.5
	08/30/05	< 0.005	< 0.005	14	9.1
	06/02/05	< 0.005	< 0.005	12	9.3 J+
	04/01/05	< 0.005	< 0.005	11	6.2
	03/08/99	< 0.003	< 0.003	3.4	NA
	12/01/98	< 0.6	< 0.6	6.9	NA
	08/27/98	< 1.5	< 1.5	9.6	NA
	06/11/98	< 0.25 DU	< 0.25 DU	3.3 D	NA
	03/17/98	< 0.25 DU	< 0.25 DU	2.47 D	NA
	12/22/97	< 1.3 DU	< 1.3 DU	14 D	NA
	09/18/97	< 0.5 DU	< 0.5 DU	13.5 D	NA
1065PZ4B (intermediate)	03/08/99	< 0.3	< 0.3	0.057	NA
	12/01/98	< 0.015	< 0.015	0.14	NA
	08/27/98	< 0.003	< 0.003	0.036	NA
	06/11/98	< 0.0005	< 0.0005	0.001	NA
	03/17/98	< 0.0005	< 0.0005	< 0.0005	NA
	12/22/97	< 0.0025 DU	< 0.0025 DU	0.0721 D	NA
	09/18/97	< 0.005 D	< 0.005 D	0.133 D	NA
1065PZ5AR (shallow)	03/07/06	NA	NA	NA	42
DUP0307062B	03/07/06	NA	NA	NA	42
1065PZ5ARCL	03/07/06	NA	NA	NA	43.5
	11/29/05	< 0.005	< 0.005	12	49
	08/30/05	< 0.005	< 0.005	3.2	37
	05/24/05	< 0.005	< 0.005	6.9	57
	04/11/05	< 0.005	< 0.005	12	47
	03/12/98	NA	NA	2.710 D	NA
	09/16/97	NA	NA	0.0645 D	NA
1065PZ5B (intermediate)	03/03/99	< 0.003	< 0.003	< 0.003	NA
	11/24/98	< 0.003	< 0.003	< 0.003	NA
	08/25/98	< 0.003	< 0.003	< 0.003	NA
	06/09/98	< 0.0005	< 0.0005	< 0.0008	NA
	03/12/98	< 0.0005	< 0.0005	< 0.0005	NA
	12/17/97	< 0.0005	< 0.0005	0.0005	NA
	09/16/97	< 0.0005	< 0.0005	0.0148	NA

Table A-11-5
Results of Dissolved Gas and TOC Analyses
Building 1065 Area
Presidio of San Francisco, California

Location ID	Sample Date	Ethane	Ethene	Methane	TOC
	Analytical Method[1]	RSK 175	RSK 175	RSK 175	SW9060
		(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065PZ6A (shallow)	03/01/99	< 0.003	< 0.003	< 0.003	NA
	11/23/98	< 0.003	< 0.003	< 0.003	NA
	08/24/98	< 0.003	< 0.003	< 0.003	NA
	06/08/98	< 0.0005	< 0.0005	< 0.0005	NA
	03/11/98	< 0.0005	< 0.0005	< 0.0005	NA
	12/16/97	< 0.0005	< 0.0005	< 0.0005	NA
	09/15/97	< 0.0005	< 0.0005	0.0006	NA
	09/15/97	NA	NA	0.0006	NA
1065PZ6B (intermediate)	03/01/99	< 0.003	< 0.003	< 0.003	NA
	11/23/98	< 0.003	< 0.003	< 0.003	NA
	08/24/98	< 0.003	< 0.003	< 0.003	NA
	06/08/98	< 0.0005	< 0.0005	0.0009	NA
	03/11/98	< 0.0005	< 0.0005	< 0.0005	NA
	12/16/97	< 0.0005	< 0.0005	0.0008	NA
	09/15/97	< 0.0005	< 0.0005	0.0109	NA
1065PZ7A (shallow)	03/08/99	< 0.003	< 0.003	< 0.003	NA
	12/01/98	< 0.003	< 0.003	< 0.003	NA
	08/26/98	< 0.003	< 0.003	< 0.003	NA
	06/10/98	< 0.0005	< 0.0005	< 0.0005	NA
	03/16/98	< 0.0005	< 0.0005	< 0.0005	NA
	12/18/97	< 0.0005	< 0.0005	< 0.0005	NA
	09/17/97	< 0.0005	< 0.0005	< 0.0005	NA
1065PZ7B (intermediate)	03/08/99	< 0.003	< 0.003	< 0.003	NA
	12/01/98	< 0.003	< 0.003	< 0.003	NA
	08/26/98	< 0.003	< 0.003	< 0.003	NA
	06/10/98	< 0.0005	< 0.0005	0.0007	NA
	03/16/98	< 0.0005	< 0.0005	< 0.0005	NA
	12/18/97	< 0.0005	< 0.0005	0.0033	NA
	09/17/97	< 0.0005	< 0.0005	0.0166	NA
1065MW9A (shallow)	03/09/06	NA	NA	NA	2.1
DUP0309062B	03/09/06	NA	NA	NA	2.5
	11/30/05	< 0.005	< 0.005	8.4	2.9
DUP1130052B	11/30/05	< 0.005	< 0.005	7.1	2.8
1065MW9ACL	11/30/05	< 0.005 UU	< 0.015 UU	3.7	3
	08/30/05	< 0.005	< 0.005	5.6	3
DUP0830052B	08/30/05	< 0.005	< 0.005	5.1	2.8
1065MW9ACL	08/30/05	0.0013 J-	0.00072 J J-	3 J-	2.9
	05/24/05	< 0.005	< 0.005	4.7	3
	04/06/05	< 0.005	< 0.005	9.2	2.9
DUP0406052A	04/06/05	< 0.005	< 0.005	9.2	2.7
1065MW101A (shallow)	03/13/06	NA	NA	NA	28
	11/29/05	< 0.005	< 0.005	17	33
	08/31/05	< 0.005	< 0.005	12	41
	05/26/05	< 0.005	< 0.005	14	51
DUP0526051B	05/26/05	< 0.005	< 0.005	13	51
1065MW101ACL	05/26/05	0.00077	< 0.0015 U	10	34.7
	03/29/05	< 0.005	< 0.005	15	34

Table A-11-5
Results of Dissolved Gas and TOC Analyses
Building 1065 Area
Presidio of San Francisco, California

Location ID	Sample Date	Ethane	Ethene	Methane	TOC
	Analytical Method[1]	RSK 175	RSK 175	RSK 175	SW9060
		(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065MW102A (shallow)	03/14/06	NA	NA	NA	4.8
	11/29/05	< 0.005	< 0.005	1.4	7.8
	09/01/05	< 0.005	< 0.005	4.3 J-	17
	05/24/05	< 0.005	< 0.005	2.9	12
	03/29/05	< 0.005	< 0.005	1.5	8.3

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Fourth Quarter 2004.
mg/L - milligrams per liter
TOC - Total Organic Carbon
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-11-6
Results of Arsenic Speciation Analyses
Building 1065 Area
Presidio of San Francisco, California

Location ID	Sample Date	Inorganic Arsenic (As)	Arsenite (As III)	Arsenate (As V) [2]	Percentage of As III [3]	Percentage of As V [3]
	Analytical Method[1]	**1632M**	**1632M**	**1632M**	--	--
		(µg/L)	(µg/L)	(µg/L)	%	%
Cleanup Levels[4]		**10**	--	--	--	--
1065PZ1A (shallow)	08/31/05	**20 J**	22.1 J	< 1 JU	>99	<1
	06/02/05	**35.7**	30	5.7	84	16
	03/29/05	3.23	2.55	0.678 B	79	21
1065PZ2A (shallow)	08/31/05	**16.8**	17.1	< 1 U	>99	<1
	05/24/05	**19.2**	15	4.2	78	22
	04/01/05	8.88	6.15	2.73	69	31
DUP0401052A	04/01/05	9.02	5.78	3.25	64	36
1065PZ4A (shallow)	08/31/05	**11.9**	12.9	< 1 U	>99	<1
	06/02/05	9.33	8.44	0.89	90	10
	04/01/05	6.7	6.4	0.306 B	95	5
1065PZ5AR (shallow)	08/31/05	**42**	41	< 10 U	>99	<1
	05/24/05	**24.5**	20	4.5	82	18
	04/11/05	**26.4**	19	7.39	72	28
1065MW9A (shallow)	08/30/05	8.5	8.3	< 1 U	>99	<1
DUP0830052B	08/30/05	6.9	7	< 0.5 U	>99	<1
	05/24/05	2.23	1.14	1.09	51	49
	04/06/05	8.23	5.67	2.56	69	31
DUP0406052A	04/06/05	4.36	4.1	0.259	94	6
1065MW101A (shallow)	08/31/05	**24.8 J**	26.2 J	< 1 JU	>99	<1
	05/26/05	**22.9**	18.1	4.8	79	21
DUP0526051B	05/26/05	**21.3**	17.8	3.5	84	16
	03/29/05	**17**	20.1	< 0.14 U	>99	<1
1065MW102A (shallow)	05/24/05	4.32	1.48	2.84	34	66
	03/29/05	5.8	4.47	1.34	77	23

Notes

1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001.

2 - The concentration of As V was determined by the laboratory by subtracting the As III concentration from the inorganic As concentration.

3 - Relative percentages of As III and As V were calculated by dividing the As III and As V concentrations by the As concentration and multiplying by 100.

4 - From Table 6 of the Building 1065 CAP (MACTEC, 2007)

µg/L - micrograms per liter

-- Cleanup level not established

Bold concentrations indicate cleanup level exceedances.

CL suffix denotes a quality control duplicate sample was sent to the control laboratory.

Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.

Table 11 in the main report identifies current and historical data qualifiers.

Table A-11-7
Groundwater Elevation Summary
Building 1065/1027 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
Shallow Zone Monitoring Wells					
1065PZ1A[2]	02/26/07	5.40	13.30	7.90	PZ
	12/04/06	5.68	13.30	7.62	PZ
	08/14/06	5.80	13.30	7.50	PZ
	05/22/06	5.53	13.30	7.77	PZ
	03/06/06	5.33	13.30	7.97	PZ
	11/28/05	5.70	13.30	7.60	PZ
	08/29/05	5.76	13.30	7.54	PZ
	05/23/05	5.53	13.30	7.77	PZ
	03/14/05	5.50	13.30	7.80	PZ
	12/13/04	4.95	13.30	8.35	PZ
	08/09/04	5.88	13.30	7.42	PZ
	05/24/04	5.76	13.30	7.54	PZ
	03/08/04	5.58	13.30	7.72	PZ
	12/01/03	5.63	13.30	7.67	PZ
	08/11/03	5.82	13.30	7.48	PZ
	06/02/03	5.59	13.30	7.71	PZ
	03/10/03	5.56	13.30	7.74	PZ
	12/02/02	5.74	13.30	7.56	PZ
	11/05/02	5.80	13.30	7.50	PZ
	08/26/02	5.75	13.30	7.55	PZ
	05/28/02	5.56	13.30	7.74	PZ
	03/04/02	5.43	13.30	7.87	PZ
	11/26/01	5.64	13.30	7.66	PZ
	08/27/01	5.80	13.30	7.50	PZ
	05/08/01	5.55	13.30	7.75	PZ
1065PZ2A	06/04/07	3.47	12.82	9.35	PZ
	02/26/07	3.20	12.82	9.62	PZ
	12/04/06	3.46	12.82	9.36	PZ
	08/14/06	3.40	12.82	9.42	PZ
	05/22/06	3.28	12.82	9.54	PZ
	03/06/06	3.12	12.82	9.70	PZ
	11/28/05	3.40	12.82	9.42	PZ
	08/29/05	3.35	12.82	9.47	PZ
	05/23/05	3.24	12.82	9.58	PZ
	03/14/05	3.31	12.82	9.51	PZ
	12/13/04	3.32	12.82	9.50	PZ
	08/09/04	3.92	12.82	8.90	PZ
	05/24/04	3.80	12.82	9.02	PZ
	03/08/04	3.24	12.82	9.58	PZ
	12/01/03	3.60	12.82	9.22	PZ
	08/11/03	4.13	12.82	8.69	PZ
	06/02/03	3.77	12.82	9.05	PZ
	03/10/03	3.65	12.82	9.17	PZ
	12/02/02	3.71	12.82	9.11	PZ
	11/05/02	3.81	12.82	9.01	PZ
	08/26/02	3.66	12.82	9.16	PZ
	05/28/02	3.40	12.82	9.42	PZ
	03/04/02	3.37	12.82	9.45	PZ
	11/26/01	3.44	12.82	9.38	PZ
	08/27/01	3.68	12.82	9.14	PZ
	05/08/01	3.44	12.82	9.38	PZ

Table A-11-7
Groundwater Elevation Summary
Building 1065/1027 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1065PZ3A	06/04/07	9.89	23.96	14.07	PZ
	02/26/07	9.60	23.96	14.36	PZ
	12/04/06	9.78	23.96	14.18	PZ
	08/14/06	9.38	23.96	14.58	PZ
	05/22/06	9.08	23.96	14.88	PZ
	03/06/06	8.75	23.96	15.21	PZ
	11/28/05	9.57	23.96	14.39	PZ
	08/29/05	9.02	23.96	14.94	PZ
	05/23/05	8.65	23.96	15.31	PZ
	03/14/05	8.63	23.96	15.33	PZ
	12/13/04	9.40	23.96	14.56	PZ
	08/09/04	9.97	23.96	13.99	PZ
	05/24/04	9.97	23.96	13.99	PZ
	03/08/04	9.60	23.96	14.36	PZ
	12/01/03	Dry	23.96	11.96 [3]	PZ
	08/11/03	Dry	23.96	11.96 [3]	PZ
	06/02/03	Dry	23.96	11.96 [3]	PZ
	03/10/03	10.47	23.96	13.49	PZ
	12/02/02	9.88	23.96	14.08	PZ
	11/05/02	10.02	23.96	13.94	PZ
	08/26/02	9.45	23.96	14.51	PZ
	05/28/02	9.41	23.96	14.55	PZ
	03/04/02	9.11	23.96	14.85	PZ
	11/26/01	9.60	23.96	14.36	PZ
	08/27/01	9.76	23.96	14.20	PZ
	05/08/01	8.28	23.96	15.68	PZ
1065PZ4A	06/04/07	5.54	14.19	8.65	PZ
	02/26/07	5.15	14.19	9.04	PZ
	12/04/06	5.60	14.19	8.59	PZ
	08/14/06	5.22	14.19	8.97	PZ
	05/22/06	5.21	14.19	8.98	PZ
	03/06/06	4.90	14.19	9.29	PZ
	11/28/05	5.65	14.19	8.54	PZ
	08/29/05	5.02	14.19	9.17	PZ
	05/23/05	4.25	14.19	9.94	PZ
	03/14/05	4.88	14.19	9.31	PZ
	12/13/04	5.47	14.19	8.72	PZ
	08/09/04	5.51	14.19	8.68	PZ
	05/24/04	4.89	14.19	9.30	PZ
	03/08/04	5.17	14.19	9.02	PZ
	12/01/03	5.19	14.19	9.00	PZ
	08/11/03	5.65	14.19	8.54	PZ
	06/02/03	5.51	14.19	8.68	PZ
	03/10/03	5.26	14.19	8.93	PZ
	12/02/02	5.42	14.19	8.77	PZ
	11/05/02	5.37	14.19	8.82	PZ
	08/26/02	4.36	14.19	9.83	PZ
	05/28/02	4.39	14.19	9.80	PZ
	03/04/02	4.63	14.19	9.56	PZ
	11/26/01	4.95	14.19	9.24	PZ
	08/27/01	4.62	14.19	9.57	PZ
	05/08/01	4.06	14.19	10.13	PZ

Table A-11-7
Groundwater Elevation Summary
Building 1065/1027 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1065PZ5AR	06/04/07	3.84	17.38	13.54	PZ
	02/26/07	3.39	17.38	13.99	PZ
	12/04/06	3.70	17.38	13.68	PZ
	08/14/06	3.55	17.38	13.83	PZ
	05/22/06	3.15	17.38	14.23	PZ
	03/06/06	2.83	17.38	14.55	PZ
	11/28/05	3.40	17.38	13.98	PZ
	08/29/05	3.21	17.38	14.17	PZ
	05/23/05	3.01	17.38	14.37	PZ
	03/14/05	3.05	17.38	14.33	PZ
	12/13/04	3.40	17.38	13.98	PZ
	08/09/04	3.92	17.38	13.46	PZ
	05/24/04	3.88	17.38	13.50	PZ
	03/08/04	3.58	17.38	13.80	PZ
	12/01/03	5.10	17.38	12.28	PZ
	08/11/03	6.16	17.38	11.22	PZ
	06/02/03	5.22	17.38	12.16	PZ
	03/10/03	4.11	17.38	13.27	PZ
	11/05/02	4.30	17.38	13.08	PZ
1065PZ6A	06/04/07	NM	26.19	NM	PZ
	02/26/07	NM	26.19	NM	PZ
	12/04/06	NM	26.19	NM	PZ
	08/14/06	10.68	26.19	15.51	PZ
	05/22/06	NM	26.19	NM	PZ
	03/06/06	NM	26.19	NM	PZ
	11/28/05	10.50	26.19	15.69	PZ
	08/29/05	10.06	26.19	16.13	PZ
	05/23/05	9.95	26.19	16.24	PZ
	03/14/05	9.98	26.19	16.21	PZ
	12/13/04	10.90	26.19	15.29	PZ
	08/09/04	11.35	26.19	14.84	PZ
	05/24/04	11.40	26.19	14.79	PZ
	03/08/04	11.23	26.19	14.96	PZ
	12/01/03	13.36	26.19	12.83	PZ
	08/11/03	14.54	26.19	11.65	PZ
	06/02/03	14.36	26.19	11.83	PZ
	03/10/03	12.52	26.19	13.67	PZ
	12/02/02	11.37	26.19	14.82	PZ
	11/05/02	11.69	26.19	14.50	PZ
	08/26/02	10.88	26.19	15.31	PZ
	05/28/02	10.79	26.19	15.40	PZ
	03/04/02	10.42	26.19	15.77	PZ
	11/26/01	11.02	26.19	15.17	PZ
	08/27/01	11.23	26.19	14.96	PZ
	05/08/01	10.48	26.19	15.71	PZ
1065PZ7A	06/04/07	3.56	16.11	12.55	PZ
	02/26/07	3.28	16.11	12.83	PZ
	12/04/06	3.24	16.11	12.87	PZ
	08/14/06	3.03	16.11	13.08	PZ
	05/22/06	2.72	16.11	13.39	PZ
	03/06/06	2.80	16.11	13.31	PZ
	11/28/05	3.01	16.11	13.10	PZ
	08/29/05	2.80	16.11	13.31	PZ

Table A-11-7
Groundwater Elevation Summary
Building 1065/1027 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1065PZ7A	05/23/05	2.45	16.11	13.66	PZ
	03/14/05	2.48	16.11	13.63	PZ
	12/13/04	3.13	16.11	12.98	PZ
	08/09/04	3.40	16.11	12.71	PZ
	05/24/04	3.04	16.11	13.07	PZ
	03/08/04	3.50	16.11	12.61	PZ
	12/01/03	4.13	16.11	11.98	PZ
	08/11/03	4.82	16.11	11.29	PZ
	06/02/03	4.63	16.11	11.48	PZ
	03/10/03	3.56	16.11	12.55	PZ
	12/02/02	3.32	16.11	12.79	PZ
	11/05/02	3.35	16.11	12.76	PZ
	08/26/02	2.92	16.11	13.19	PZ
	05/28/02	3.05	16.11	13.06	PZ
	03/04/02	2.80	16.11	13.31	PZ
	11/26/01	3.11	16.11	13.00	PZ
	08/27/01	3.14	16.11	12.97	PZ
	05/08/01	2.79	16.11	13.32	PZ
1065MW9A[2]	02/26/07	3.48	13.31	9.83	MW
	12/04/06	4.02	13.31	9.29	MW
	08/14/06	4.00	13.31	9.31	MW
	05/22/06	3.64	13.31	9.67	MW
	03/06/06	2.98	13.31	10.33	MW
	11/28/05	3.68	13.31	9.63	MW
	08/29/05	3.78	13.31	9.53	MW
	05/23/05	3.86	13.31	9.45	MW
	03/14/05	3.93	13.31	9.38	MW
	12/13/04	3.90	13.31	9.41	MW
	08/09/04	4.51	13.31	8.80	MW
	05/24/04	4.10	13.31	9.21	MW
	03/08/04	3.94	13.31	9.37	MW
	12/01/03	4.10	13.31	9.21	MW
	08/11/03	4.4	13.31	8.91	MW
	06/02/03	3.90	13.31	9.41	MW
	03/10/03	3.75	13.31	9.56	MW
	11/05/02	4.32	13.31	8.99	MW
1065MW10A	06/04/07	4.30	17.33	13.03	MW
	02/26/07	4.30	17.33	13.03	MW
	12/04/06	4.11	17.33	13.22	MW
	08/14/06	3.96	17.33	13.37	MW
	05/22/06	3.47	17.33	13.86	MW
	03/06/06	2.89	17.33	14.44	MW
	11/28/05	4.30	17.33	13.03	MW
	08/29/05	3.92	17.33	13.41	MW
	05/23/05	3.50	17.33	13.83	MW
	03/14/05	3.52	17.33	13.81	MW
	12/13/04	5.75	17.33	11.58	MW
	08/09/04	6.05	17.33	11.28	MW
	05/24/04	6.05	17.33	11.28	MW
	03/08/04	4.75	17.33	12.58	MW

Table A-11-7
Groundwater Elevation Summary
Building 1065/1027 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1065MW10A	12/01/03	6.08	17.33	11.25	MW
	08/11/03	6.7	17.33	10.63	MW
	06/02/03	6.34	17.33	10.99	MW
	03/10/03	5.30	17.33	12.03	MW
	11/05/02	5.35	17.33	11.98	MW
1065MW11A	06/04/07	9.30	23.61	14.31	MW
	02/26/07	8.95	23.61	14.66	MW
	12/04/06	9.15	23.61	14.46	MW
	08/14/06	8.84	23.61	14.77	MW
	05/22/06	8.44	23.61	15.17	MW
	03/06/06	8.04	23.61	15.57	MW
	11/28/05	8.61	23.61	15.00	MW
	08/29/05	8.35	23.61	15.26	MW
	05/23/05	8.15	23.61	15.46	MW
	03/14/05	8.26	23.61	15.35	MW
	12/13/04	8.98	23.61	14.63	MW
	08/09/04	9.45	23.61	14.16	MW
	05/24/04	9.45	23.61	14.16	MW
	03/08/04	9.24	23.61	14.37	MW
	12/01/03	11.07	23.61	12.54	MW
	08/11/03	12.3	23.61	11.31	MW
	06/02/03	12.08	23.61	11.53	MW
	03/10/03	10.44	23.61	13.17	MW
	11/05/02	9.69	23.61	13.92	MW
1065MW101A	06/04/07	5.58	13.06	7.48	MW
	02/26/07	5.70	13.06	7.36	MW
	12/04/06	5.65	13.06	7.41	MW
	08/14/06	5.72	13.06	7.34	MW
	05/22/06	5.69	13.06	7.37	MW
	03/06/06	5.55	13.06	7.51	MW
	11/28/05	5.60	13.06	7.46	MW
	08/29/05	5.67	13.06	7.39	MW
	05/23/05	5.23	13.06	7.83	MW
	03/14/05	5.33	13.06	7.73	MW
	12/13/04	4.20	13.06	8.86	MW
	08/09/04	5.75	13.06	7.31	MW
1065MW102A	06/04/07	5.11	12.83	7.72	MW
	02/26/07	3.55	12.83	9.28	MW
	12/04/06	4.71	12.83	8.12	MW
	08/14/06	5.00	12.83	7.83	MW
	05/22/06	4.40	12.83	8.43	MW
	03/06/06	3.80	12.83	9.03	MW
	11/28/05	4.75	12.83	8.08	MW
	08/29/05	4.93	12.83	7.90	MW
	05/23/05	4.23	12.83	8.60	MW
	03/14/05	4.17	12.83	8.66	MW
	12/13/04	4.05	12.83	8.78	MW
	08/09/04	5.00	12.83	7.83	MW
1065MW103A	06/04/07	5.11	12.71	7.60	MW

Table A-11-7
Groundwater Elevation Summary
Building 1065/1027 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1027MW01	06/04/07	9.29	23.10	13.81	MW
	02/26/07	9.09	23.10	14.01	MW
	12/04/06	9.21	23.10	13.89	MW
	08/14/06	8.95	23.10	14.15	MW
	05/22/06	8.45	23.10	14.65	MW
	03/06/06	8.16	23.10	14.94	MW
	11/28/05	9.04	23.10	14.06	MW
	08/29/05	8.20	23.10	14.90	MW
	05/23/05	7.82	23.10	15.28	MW
	03/14/05	7.89	23.10	15.21	MW
	12/13/04	8.56	23.10	14.54	MW
	08/09/04	9.18	23.10	13.92	MW
	05/24/04	9.09	23.10	14.01	MW
	03/08/04	8.73	23.10	14.37	MW
	12/01/03	10.37	23.10	12.73	MW
	08/11/03	11.19	23.10	11.91	MW
	06/02/03	10.85	23.10	12.25	MW
	03/10/03	9.44	23.10	13.66	MW
	12/02/02	9.08	23.10	14.02	MW
	08/26/02	8.62	23.10	14.48	MW
	05/28/02	8.06	23.10	15.04	MW
	03/04/02	8.45	23.10	14.65	MW
	11/26/01	8.80	23.10	14.30	MW
	08/27/01	8.96	23.10	14.14	MW
	05/08/01	8.19	23.10	14.91	MW
1027MW03	06/04/07	9.45	23.57	14.12	MW
	02/26/07	9.03	23.57	14.54	MW
	12/04/06	9.25	23.57	14.32	MW
	08/14/06	8.98	23.57	14.59	MW
	05/22/06	8.47	23.57	15.10	MW
	03/06/06	8.30	23.57	15.27	MW
	11/28/05	9.08	23.57	14.49	MW
	08/29/05	8.34	23.57	15.23	MW
	05/23/05	7.77	23.57	15.80	MW
	03/14/05	7.75	23.57	15.82	MW
	12/13/04	8.67	23.57	14.90	MW
	08/09/04	9.05	23.57	14.52	MW
	05/24/04	9.16	23.57	14.41	MW
	03/08/04	8.80	23.57	14.77	MW
	12/01/03	10.61	23.57	12.96	MW
	08/11/03	11.35	23.57	12.22	MW
	06/02/03	11.05	23.57	12.52	MW
	03/10/03	9.46	23.57	14.11	MW
	12/02/02	9.15	23.57	14.42	MW
	08/26/02	8.72	23.57	14.85	MW
	05/28/02	8.68	23.57	14.89	MW
	03/04/02	8.42	23.57	15.15	MW
	11/26/01	8.93	23.57	14.64	MW
	08/27/01	9.04	23.57	14.53	MW
	05/08/01	8.25	23.57	15.32	MW

Table A-11-7
Groundwater Elevation Summary
Building 1065/1027 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1047MW101	06/04/07	5.04	19.92	14.88	MW
	02/26/07	4.69	19.92	15.23	MW
	12/04/06	5.04	19.92	14.88	MW
	08/14/06	4.40	19.92	15.52	MW
	05/22/06	4.72	19.92	15.20	MW
	03/06/06	3.82	19.92	16.10	MW
Intermediate Zone Monitoring Wells					
1065PZ1B[2]	02/26/07	1.51	13.31	11.80	PZ
	12/04/06	2.18	13.31	11.13	PZ
	08/14/06	1.03	13.31	12.28	PZ
	05/22/06	0.72	13.31	12.59	PZ
	03/06/06	0.68	13.31	12.63	PZ
	11/28/05	1.18	13.31	12.13	PZ
	08/29/05	0.78	13.31	12.53	PZ
	05/23/05	0.47	13.31	12.84	PZ
	03/14/05	0.87	13.31	12.44	PZ
	12/13/04	1.22	13.31	12.09	PZ
	08/09/04	1.75	13.31	11.56	PZ
	05/24/04	1.83	13.31	11.48	PZ
	03/08/04	1.82	13.31	11.49	PZ
	12/01/03	2.83	13.31	10.48	PZ
	08/11/03	4.47	13.31	8.84	PZ
	06/02/03	3.54	13.31	9.77	PZ
	03/10/03	2.40	13.31	10.91	PZ
	12/02/02	1.55	13.31	11.76	PZ
	11/05/02	2.02	13.31	11.29	PZ
	08/26/02	1.22	13.31	12.09	PZ
	05/28/02	1.15	13.31	12.16	PZ
	03/04/02	0.90	13.31	12.41	PZ
	11/26/01	1.35	13.31	11.96	PZ
	08/27/01	1.49	13.31	11.82	PZ
	05/08/01	1.06	13.31	12.25	PZ
1065PZ2B	06/04/07	1.92	15.56	13.64	PZ
	02/26/07	1.55	15.56	14.01	PZ
	12/04/06	1.44	15.56	14.12	PZ
	08/14/06	1.35	15.56	14.21	PZ
	05/22/06	1.02	15.56	14.54	PZ
	03/06/06	1.05	15.56	14.51	PZ
	11/28/05	1.25	15.56	14.31	PZ
	08/29/05	1.09	15.56	14.47	PZ
	05/23/05	1.55	15.56	14.01	PZ
	03/14/05	1.67	15.56	13.89	PZ
	12/13/04	2.13	15.56	13.43	PZ
	08/09/04	2.35	15.56	13.21	PZ
	05/24/04	2.92	15.56	12.64	PZ
	03/08/04	2.32	15.56	13.24	PZ
	12/01/03	4.16	15.56	11.40	PZ
	08/11/03	5.25	15.56	10.31	PZ
	06/02/03	5.28	15.56	10.28	PZ
	03/10/03	3.78	15.56	11.78	PZ
	12/02/02	2.08	15.56	13.48	PZ
	11/05/02	2.62	15.56	12.94	PZ

Table A-11-7
Groundwater Elevation Summary
Building 1065/1027 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1065PZ2B	08/26/02	1.66	15.56	13.90	PZ
	05/28/02	1.42	15.56	14.14	PZ
	03/04/02	1.27	15.56	14.29	PZ
	11/26/01	1.72	15.56	13.84	PZ
	08/27/01	1.86	15.56	13.70	PZ
	05/08/01	1.35	15.56	14.21	PZ
1065PZ3B	06/04/07	9.56	23.65	14.09	PZ
	02/26/07	9.35	23.65	14.30	PZ
	12/04/06	9.22	23.65	14.43	PZ
	08/14/06	9.05	23.65	14.60	PZ
	05/22/06	8.75	23.65	14.90	PZ
	03/06/06	8.75	23.65	14.90	PZ
	11/28/05	9.20	23.65	14.45	PZ
	08/29/05	8.65	23.65	15.00	PZ
	05/23/05	8.45	23.65	15.20	PZ
	03/14/05	8.80	23.65	14.85	PZ
	12/13/04	9.30	23.65	14.35	PZ
	08/09/04	9.65	23.65	14.00	PZ
	05/24/04	9.66	23.65	13.99	PZ
	03/08/04	10.09	23.65	13.56	PZ
	12/01/03	11.45	23.65	12.20	PZ
	08/11/03	11.93	23.65	11.72	PZ
	06/02/03	11.72	23.65	11.93	PZ
	03/10/03	10.24	23.65	13.41	PZ
	12/02/02	9.64	23.65	14.01	PZ
	11/05/02	9.75	23.65	13.90	PZ
	08/26/02	9.16	23.65	14.49	PZ
	05/28/02	9.07	23.65	14.58	PZ
	03/04/02	8.85	23.65	14.80	PZ
	11/26/01	9.27	23.65	14.38	PZ
	08/27/01	9.46	23.65	14.19	PZ
	05/08/01	8.29	23.65	15.36	PZ
1065PZ4B	06/04/07	2.55	14.45	11.90	PZ
	02/26/07	2.45	14.45	12.00	PZ
	12/04/06	2.40	14.45	12.05	PZ
	08/14/06	2.58	14.45	11.87	PZ
	05/22/06	2.63	14.45	11.82	PZ
	03/06/06	2.11	14.45	12.34	PZ
	11/28/05	2.10	14.45	12.35	PZ
	08/29/05	1.81	14.45	12.64	PZ
	05/23/05	3.13	14.45	11.32	PZ
	03/14/05	2.35	14.45	12.10	PZ
	12/13/04	2.53	14.45	11.92	PZ
	08/09/04	2.67	14.45	11.78	PZ
	05/24/04	2.68	14.45	11.77	PZ
	03/08/04	3.93	14.45	10.52	PZ
	12/01/03	3.67	14.45	10.78	PZ
	08/11/03	4.10	14.45	10.35	PZ
	06/02/03	3.45	14.45	11.00	PZ
	03/10/03	2.68	14.45	11.77	PZ
	12/02/02	2.62	14.45	11.83	PZ
	11/05/02	4.32	14.45	10.13	PZ
	08/26/02	2.52	14.45	11.93	PZ

Table A-11-7
Groundwater Elevation Summary
Building 1065/1027 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1065PZ4B	05/28/02	2.30	14.45	12.15	PZ
	03/04/02	2.38	14.45	12.07	PZ
	11/26/01	2.30	14.45	12.15	PZ
	08/27/01	2.79	14.45	11.66	PZ
	05/08/01	2.33	14.45	12.12	PZ
1065PZ5B	06/04/07	2.86	17.34	14.48	PZ
	02/26/07	2.57	17.34	14.77	PZ
	12/04/06	2.50	17.34	14.84	PZ
	08/14/06	2.19	17.34	15.15	PZ
	05/22/06	2.02	17.34	15.32	PZ
	03/06/06	2.00	17.34	15.34	PZ
	11/28/05	2.43	17.34	14.91	PZ
	08/29/05	1.90	17.34	15.44	PZ
	05/23/05	1.85	17.34	15.49	PZ
	03/14/05	2.18	17.34	15.16	PZ
	12/13/04	2.91	17.34	14.43	PZ
	08/09/04	3.19	17.34	14.15	PZ
	05/24/04	3.38	17.34	13.96	PZ
	03/08/04	3.70	17.34	13.64	PZ
	12/01/03	5.00	17.34	12.34	PZ
	08/11/03	6.56	17.34	10.78	PZ
	06/02/03	6.50	17.34	10.84	PZ
	03/10/03	4.79	17.34	12.55	PZ
	12/02/02	3.18	17.34	14.16	PZ
	11/05/02	3.64	17.34	13.70	PZ
	08/26/02	2.92	17.34	14.42	PZ
	05/28/02	2.63	17.34	14.71	PZ
	03/04/02	2.37	17.34	14.97	PZ
	11/26/01	2.82	17.34	14.52	PZ
	08/27/01	2.93	17.34	14.41	PZ
	05/08/01	2.50	17.34	14.84	PZ
1065PZ6B	06/04/07	11.41	26.36	14.95	PZ
	02/26/07	11.00	26.36	15.36	PZ
	12/04/06	10.95	26.36	15.41	PZ
	08/14/06	NM	26.36	NM	PZ
	05/22/06	10.27	26.36	16.09	PZ
	03/06/06	NM	26.36	NM	PZ
	11/28/05	10.74	26.36	15.62	PZ
	08/29/05	10.23	26.36	16.13	PZ
	05/23/05	10.08	26.36	16.28	PZ
	03/14/05	10.14	26.36	16.22	PZ
	12/13/04	11.18	26.36	15.18	PZ
	08/09/04	11.55	26.36	14.81	PZ
	05/24/04	11.57	26.36	14.79	PZ
	03/08/04	12.23	26.36	14.13	PZ
	12/01/03	13.49	26.36	12.87	PZ
	08/11/03	14.73	26.36	11.63	PZ
	06/02/03	14.56	26.36	11.80	PZ
	03/10/03	12.73	26.36	13.63	PZ
	12/02/02	11.58	26.36	14.78	PZ
	11/05/02	11.85	26.36	14.51	PZ

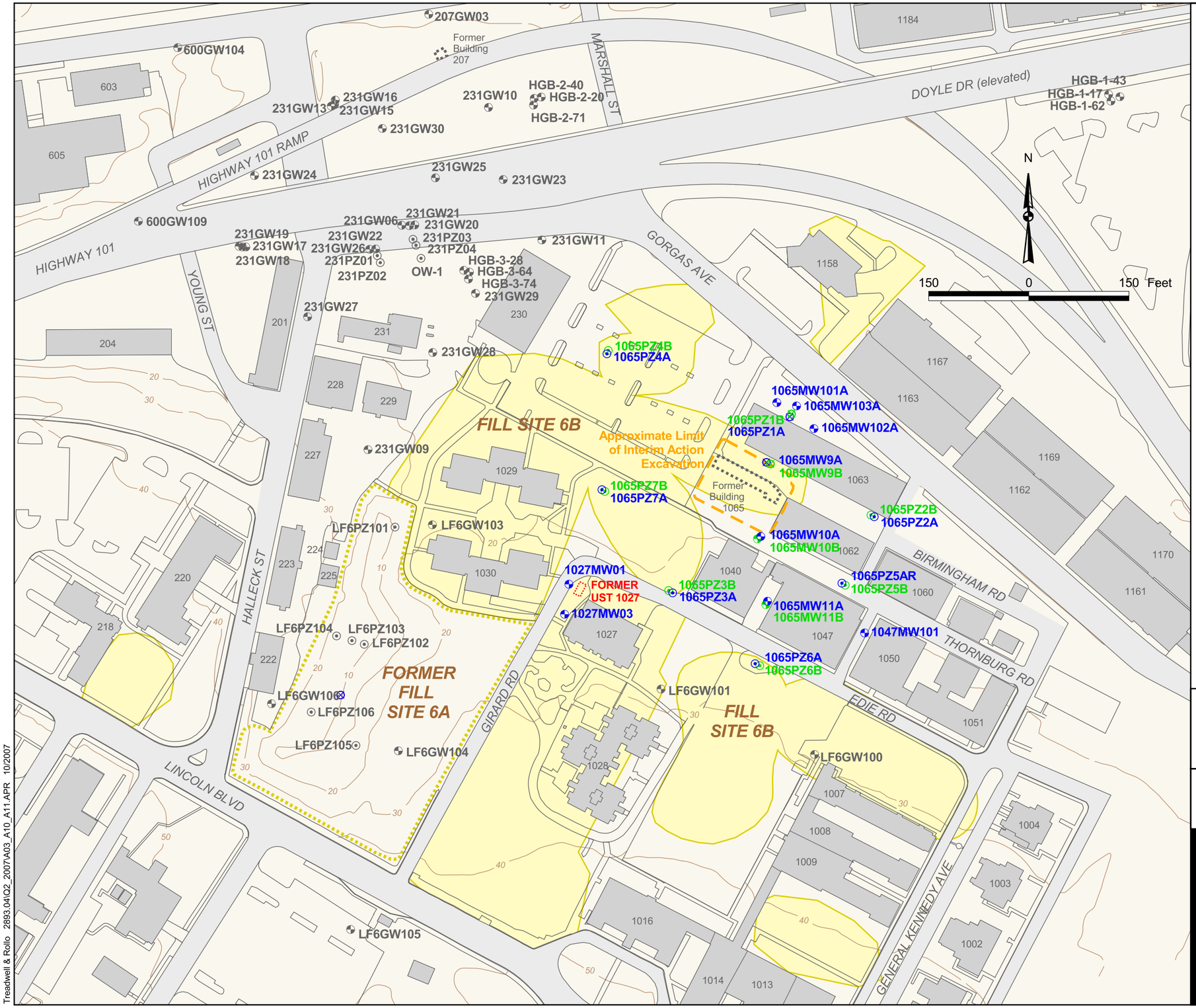
Table A-11-7
Groundwater Elevation Summary
Building 1065/1027 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1065PZ6B	08/26/02	11.04	26.36	15.32	PZ
	05/28/02	10.94	26.36	15.42	PZ
	03/04/02	10.56	26.36	15.80	PZ
	11/26/01	11.09	26.36	15.27	PZ
	08/27/01	11.39	26.36	14.97	PZ
	05/08/01	10.62	26.36	15.74	PZ
1065PZ7B	06/04/07	3.10	15.73	12.63	PZ
	02/26/07	2.90	15.73	12.83	PZ
	12/04/06	2.81	15.73	12.92	PZ
	08/14/06	2.64	15.73	13.09	PZ
	05/22/06	2.24	15.73	13.49	PZ
	03/06/06	2.55	15.73	13.18	PZ
	11/28/05	2.79	15.73	12.94	PZ
	08/29/05	2.24	15.73	13.49	PZ
	05/23/05	1.89	15.73	13.84	PZ
	03/14/05	2.40	15.73	13.33	PZ
	12/13/04	2.71	15.73	13.02	PZ
	08/09/04	2.99	15.73	12.74	PZ
	05/24/04	2.92	15.73	12.81	PZ
	03/08/04	3.18	15.73	12.55	PZ
	12/01/03	4.10	15.73	11.63	PZ
	08/11/03	4.53	15.73	11.20	PZ
	06/02/03	4.14	15.73	11.59	PZ
	03/10/03	3.18	15.73	12.55	PZ
	12/02/02	2.91	15.73	12.82	PZ
	11/05/02	2.90	15.73	12.83	PZ
	08/26/02	2.44	15.73	13.29	PZ
	05/28/02	2.70	15.73	13.03	PZ
	03/04/02	2.33	15.73	13.40	PZ
	11/26/01	2.61	15.73	13.12	PZ
	08/27/01	2.67	15.73	13.06	PZ
	05/08/01	2.37	15.73	13.36	PZ
1065MW9B[2]	02/26/07	0.00	13.39	13.39 [4]	MW
	12/04/06	0.00	13.39	13.39 [4]	MW
	08/14/06	0.00	13.39	13.39 [4]	MW
	05/22/06	0.00	13.39	13.39 [4]	MW
	03/06/06	0.00	13.39	13.39 [4]	MW
	11/28/05	0.00	13.39	13.39 [4]	MW
	08/29/05	0.00	13.39	13.39 [4]	MW
	05/23/05	0.00	13.39	13.39 [4]	MW
	03/14/05	0.00	13.39	13.39 [4]	MW
	12/13/04	0.00	13.39	13.39 [4]	MW
	08/09/04	0.38	13.39	13.01	MW
	05/24/04	0.33	13.39	13.06	MW
	03/08/04	0.21	13.39	13.18	MW
	12/01/03	1.60	13.39	11.79	MW
	08/11/03	2.92	13.39	10.47	MW
	06/02/03	2.77	13.39	10.62	MW
	03/10/03	1.33	13.39	12.06	MW
	11/05/02	0.58	13.39	12.81	MW

Table A-11-7
Groundwater Elevation Summary
Building 1065/1027 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1065MW10B	06/04/07	3.70	17.40	13.70	MW
	02/26/07	3.37	17.40	14.03	MW
	12/04/06	3.37	17.40	14.03	MW
	08/14/06	3.57	17.40	13.83	MW
	05/22/06	3.79	17.40	13.61	MW
	03/06/06	3.55	17.40	13.85	MW
	11/28/05	3.04	17.40	14.36	MW
	08/29/05	3.13	17.40	14.27	MW
	05/23/05	3.60	17.40	13.80	MW
	03/14/05	5.35	17.40	12.05	MW
	12/13/04	3.88	17.40	13.52	MW
	08/09/04	4.30	17.40	13.10	MW
	05/24/04	4.47	17.40	12.93	MW
	03/08/04	4.60	17.40	12.80	MW
	12/01/03	5.38	17.40	12.02	MW
	08/11/03	8.16	17.40	9.24	MW
	06/02/03	6.90	17.40	10.50	MW
	03/10/03	4.73	17.40	12.67	MW
	11/05/02	4.06	17.40	13.34	MW
1065MW11B	06/04/07	9.12	23.43	14.31	MW
	02/26/07	8.72	23.43	14.71	MW
	12/04/06	8.53	23.43	14.90	MW
	08/14/06	8.50	23.43	14.93	MW
	05/22/06	8.37	23.43	15.06	MW
	03/06/06	8.10	23.43	15.33	MW
	11/28/05	8.40	23.43	15.03	MW
	08/29/05	8.08	23.43	15.35	MW
	05/23/05	7.95	23.43	15.48	MW
	03/14/05	8.30	23.43	15.13	MW
	12/13/04	8.82	23.43	14.61	MW
	08/09/04	9.20	23.43	14.23	MW
	05/24/04	9.30	23.43	14.13	MW
	03/08/04	9.09	23.43	14.34	MW
	12/01/03	11.18	23.43	12.25	MW
	08/11/03	12.04	23.43	11.39	MW
	06/02/03	11.85	23.43	11.58	MW
	03/10/03	10.18	23.43	13.25	MW
	11/05/02	9.47	23.43	13.96	MW

Notes
1 - All depth to water measurements are an average of three measurements recorded in the field.
2 - Piezometer / well abandoned on 30 May 2007.
3 - Value represents the bottom of casing elevation in feet PLLW.
4 - Groundwater level was at or above the top of casing. Value listed is top of casing elevation.
NM - Not measured
MW - Monitoring well
PZ - Piezometer
feet PLLW - feet above Presidio lower low water vertical datum



LEGEND

- 1027MW01 — Shallow Groundwater Monitoring Well
- 1065PZ2A — Shallow Piezometer
- 1065PZ1A — Abandoned Shallow Groundwater Monitoring Well / Piezometer
- 1065PZ2B — Intermediate Piezometer
- 1065PZ1B — Abandoned Intermediate Groundwater Monitoring Well / Piezometer
- 231GW20 — Adjacent Study Area Well
- 231PZ01 — Adjacent Study Area Piezometer
- Building 1027 10,000 Gallon Fuel Oil Underground Storage Tank (UST) (Montgomery Watson, 1996c)
- Location of Building 1065 Interim Action Area Boundary provided by MACTEC. The Interim Action took place in November 2003.
- Topographic Contour (Contour Interval: 10 ft)
- Former Building Outline
- Former Fill Site 6A Excavation Boundary
- Approximate Lateral Extent of Fill Site 6B
- 201 — Building and Number

Notes:
Location of limits of fill from Revised Main Installation Sites Feasibility Study (EKI, 2003).

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datum: (topography) North American Vertical Datum, NAVD88

BUILDING 1065/1027 AREA SITE PLAN

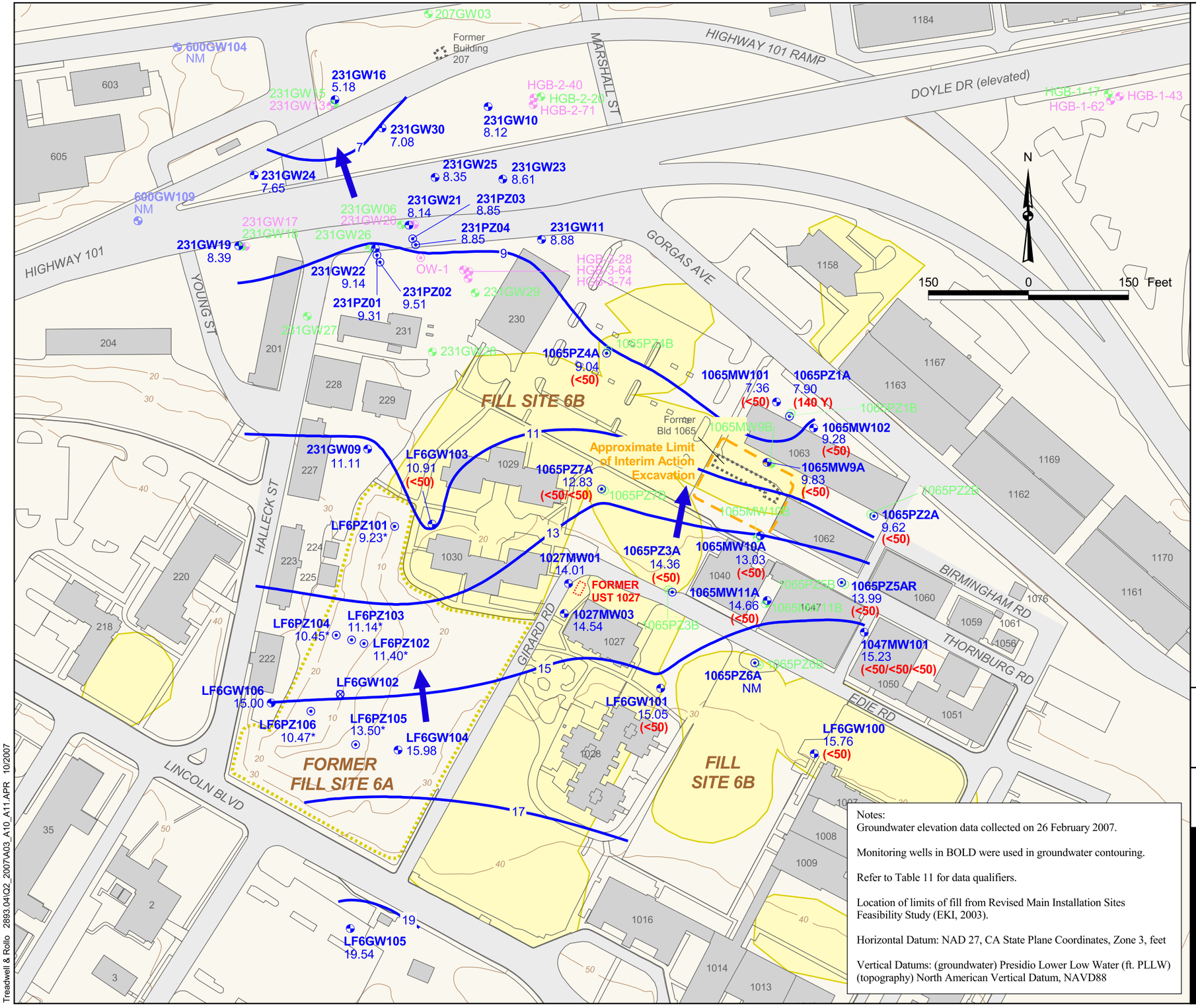
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October 2007

FIGURE A-11-1

Treadwell & Rollo 2893.04\Q2_2007\A03_A10_A11.APR 10/2007



LEGEND

- **1047MW101** / 15.23 / (<50/<50/<50) — Shallow Groundwater Monitoring Well; February 2007 Groundwater Elevation; February 2007 TPHg concentration in µg/L
  - Second value represents a blind duplicate.
  - Third value represents a quality control duplicate.
- **1065PZ1A** / 7.90 — Shallow Piezometer; February 2007 Groundwater Elevation
- * — Shallow Piezometer not used for groundwater contouring.
- NM — Not measured
- **LF6GW102** — Abandoned Shallow Groundwater Monitoring Well
- 600GW104 — Adjacent Study Area Shallow Groundwater Well
- 231GW15 — Intermediate Groundwater Monitoring Well
- 1065PZ1B — Intermediate Piezometer
- 231GW17 — Deep Groundwater Monitoring Well
- OW-1 — Deep Piezometer
- Approximate Direction of Groundwater Flow
- Groundwater Contour (Contour Interval: 2 ft)
- Location of Building 1065 Interim Action Area Boundary provided by MACTEC. The Interim Action took place in November 2003.
- Topographic Contour (Contour Interval: 10 ft)
- Building 1027 10,000 Gallon Fuel Oil Underground Storage Tank (UST) (Montgomery Watson, 1996c)
- Former Building Outline
- Former Fill Site 6A Excavation Boundary
- Approximate Lateral Extent of Fill Site 6B
- 201 — Building and Number

BUILDING 1065/1027, BUILDING 231/207, AND FILL SITE 6
26 FEBRUARY 2007
SHALLOW GROUNDWATER ELEVATION MAP
AND TPHg CONCENTRATIONS

Notes:
Groundwater elevation data collected on 26 February 2007.

Monitoring wells in BOLD were used in groundwater contouring.

Refer to Table 11 for data qualifiers.

Location of limits of fill from Revised Main Installation Sites Feasibility Study (EKI, 2003).

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

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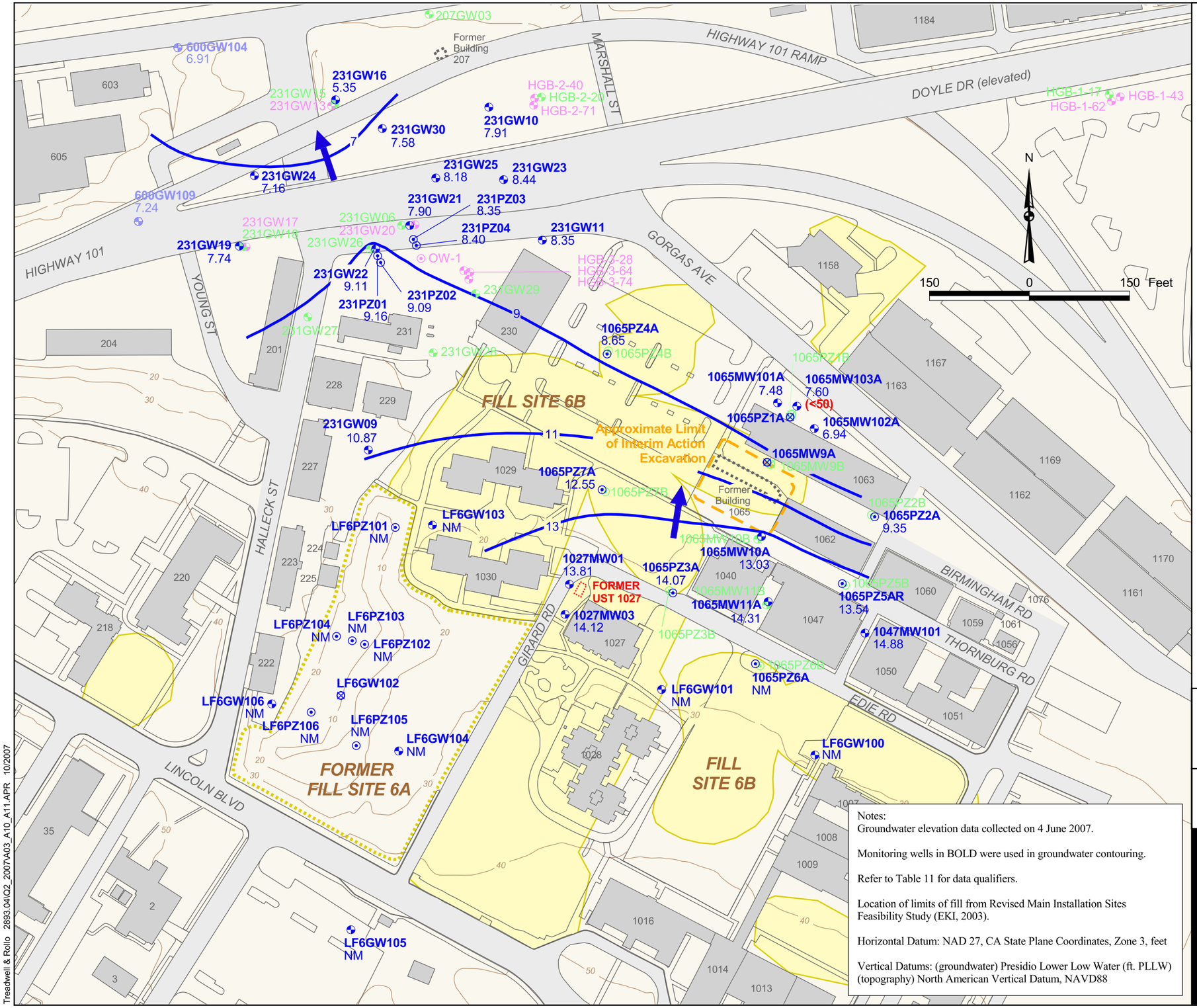
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FIGURE A-11-2

Treadwell & Rollo 2893.04\Q2_2007\A03_A10_A11.APR 10/2007



1065MW103A Shallow Groundwater Monitoring Well
7.60 June 2007 Groundwater Elevation
(<50) June 2007 TPHg concentration in µg/L
Second value represents a blind duplicate.

1065PZ2A Shallow Piezometer
9.35 June 2007 Groundwater Elevation

NM Not measured

LF6GW102 Abandoned Shallow Groundwater Monitoring Well / Piezometer

600GW104 Adjacent Study Area Shallow Groundwater Well
6.91 June 2007 Groundwater Elevation

231GW15 Intermediate Groundwater Monitoring Well

1065PZ1B Intermediate Piezometer

1065PZ1B Abandoned Intermediate Groundwater Monitoring Well / Piezometer

231GW17 Deep Groundwater Monitoring Well

OW-1 Deep Piezometer

Approximate Direction of Groundwater Flow

Groundwater Contour (Contour Interval: 2 ft)

Location of Building 1065 Interim Action Area Boundary provided by MACTEC. The Interim Action took place in November 2003.

Topographic Contour (Contour Interval: 10 ft)

Building 1027 10,000 Gallon Fuel Oil Underground Storage Tank (UST) (Montgomery Watson, 1996c)

Former Building Outline

Former Fill Site 6A Excavation Boundary

Approximate Lateral Extent of Fill Site 6B

201 Building and Number

BUILDING 1065/1027, BUILDING 231/207, AND FILL SITE 6
4 JUNE 2007
SHALLOW GROUNDWATER ELEVATION MAP
AND TPHg CONCENTRATIONS

Notes:
Groundwater elevation data collected on 4 June 2007.

Monitoring wells in BOLD were used in groundwater contouring.

Refer to Table 11 for data qualifiers.

Location of limits of fill from Revised Main Installation Sites Feasibility Study (EKI, 2003).

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

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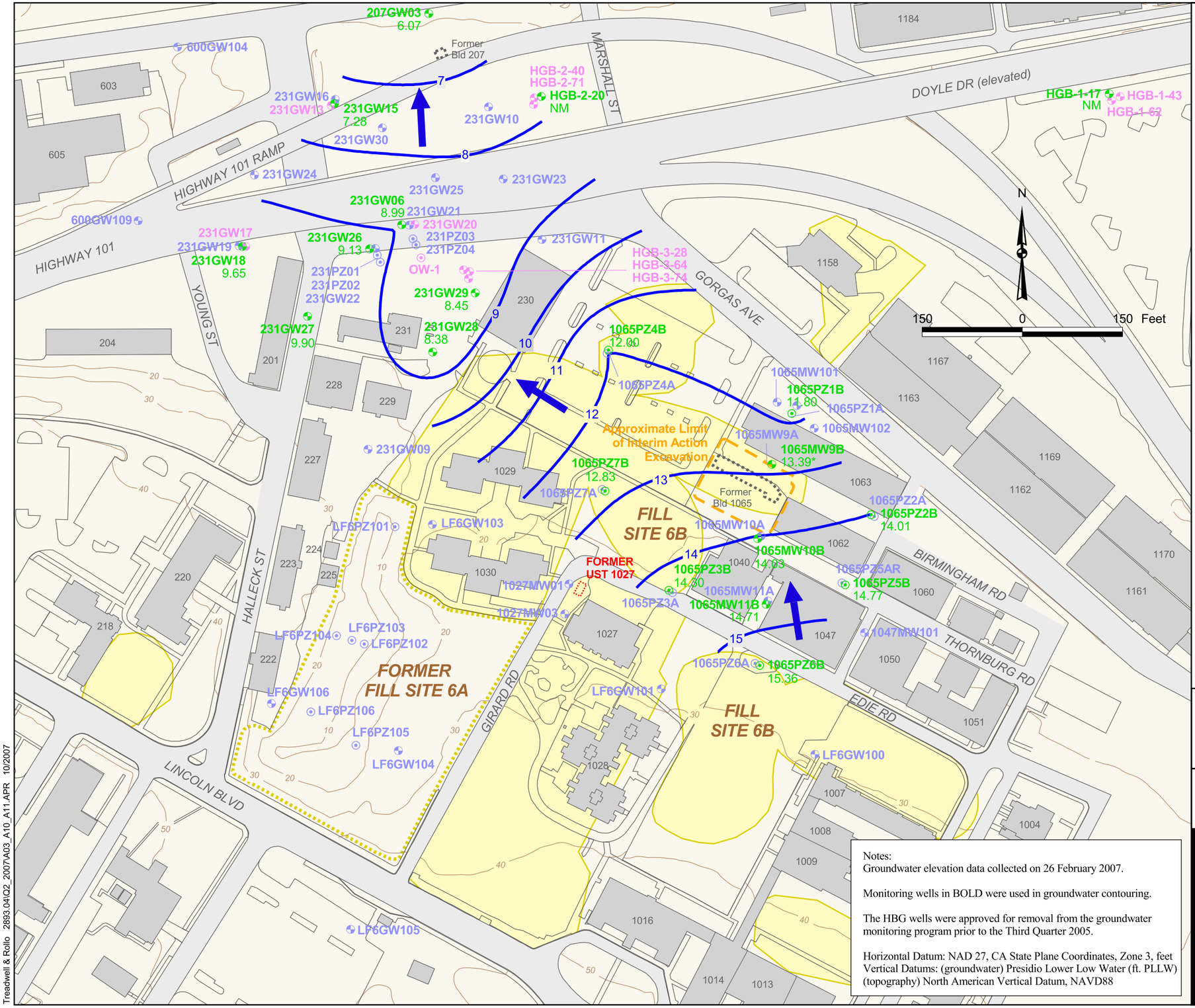
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October 2007

FIGURE A-11-3

Treadwell & Rollo 2893.04\Q2_2007\A03_A10_A11.APR 10/2007



LEGEND

- **1065MW10B** 14.03 — Intermediate Groundwater Monitoring Well, February 2007 Groundwater Elevation
- **1065PZ1B** 11.80 — Intermediate Piezometer, February 2007 Groundwater Elevation
- NM — Not Measured. Well approved for removal from the groundwater monitoring program.
- * — Well not used in contouring because groundwater within it was at or above the top of casing. Value posted is top of casing elevation.
- 231GW21 — Shallow Groundwater Monitoring Well
- 1065PZ1A — Shallow Piezometer
- 231GW20 — Deep Groundwater Monitoring Well
- OW-1 — Deep Piezometer
- Approximate Direction of Groundwater Flow
- Groundwater Contour (Contour Interval: 1 ft)
- Location of Building 1065 Interim Action Area Boundary provided by MACTEC. The Interim Action took place in November 2003.
- Topographic Contour (Contour Interval: 10 ft)
- Building 1027 10,000 Gallon Fuel Oil Underground Storage Tank (UST) (Montgomery Watson, 1996c)
- Former Building Outline
- Former Fill Site 6A Excavation Boundary
- Approximate Lateral Extent of Fill Site 6B
- 201 — Building and Number

Notes:
Groundwater elevation data collected on 26 February 2007.

Monitoring wells in BOLD were used in groundwater contouring.

The HBG wells were approved for removal from the groundwater monitoring program prior to the Third Quarter 2005.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

BUILDING 1065 AND BUILDING 231/207 26 FEBRUARY 2007 INTERMEDIATE GROUNDWATER ELEVATION MAP

Treadwell&Rollo

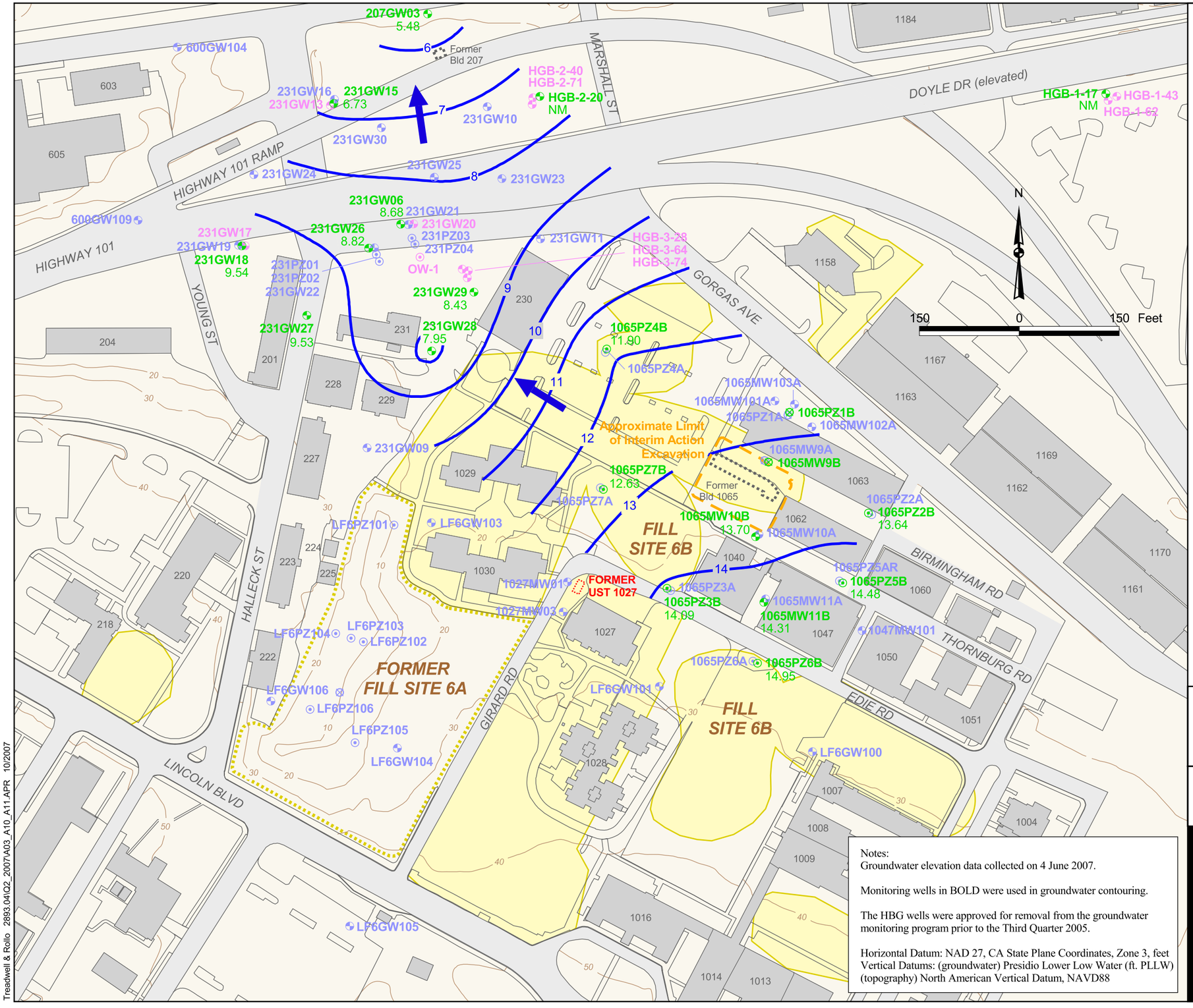
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FIGURE A-11-4

Treadwell & Rollo 2893.04\Q2_2007\A03_A10_A11.APR 10/2007



LEGEND

1065MW10B 13.70	Intermediate Groundwater Monitoring Well June 2007 Groundwater Elevation
1065PZ2B 13.64	Intermediate Piezometer June 2007 Groundwater Elevation
NM	Not Measured. Well approved for removal from the groundwater monitoring program.
1065PZ1B	Abandoned Intermediate Groundwater Monitoring Well / Piezometer
231GW21	Shallow Groundwater Monitoring Well
1065PZ2A	Shallow Piezometer
1065PZ1A	Abandoned Shallow Groundwater Monitoring Well / Piezometer
231GW20	Deep Groundwater Monitoring Well
OW-1	Deep Piezometer
	Approximate Direction of Groundwater Flow
	Groundwater Contour (Contour Interval: 1 ft)
	Location of Building 1065 Interim Action Area Boundary provided by MACTEC. The Interim Action took place in November 2003.
	Topographic Contour (Contour Interval: 10 ft)
	Building 1027 10,000 Gallon Fuel Oil Underground Storage Tank (UST) (Montgomery Watson, 1996c)
	Former Building Outline
	Former Fill Site 6A Excavation Boundary
	Approximate Lateral Extent of Fill Site 6B
201	Building and Number

Notes:
Groundwater elevation data collected on 4 June 2007.

Monitoring wells in BOLD were used in groundwater contouring.

The HBG wells were approved for removal from the groundwater monitoring program prior to the Third Quarter 2005.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

BUILDING 1065 AND BUILDING 231/207 4 JUNE 2007 INTERMEDIATE GROUNDWATER ELEVATION MAP

Treadwell&Rollo

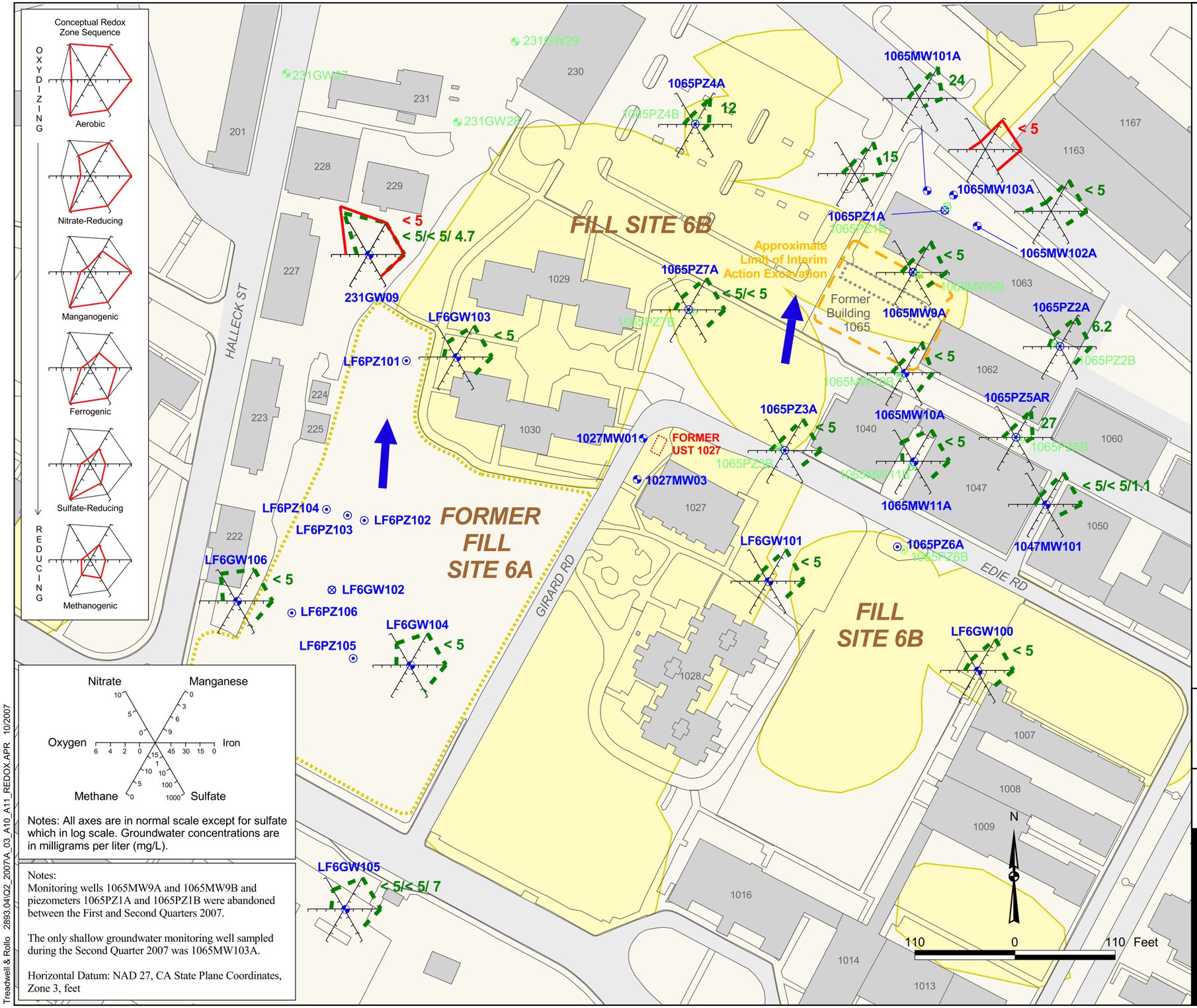
THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315

October 2007

FIGURE A-11-5

Treadwell & Rollo 2893.04\Q2_2007\A03_A10_A11.APR 10/2007



LEGEND

- 1065MW101 Shallow Groundwater Monitoring Well
- 1065PZ2A Shallow Piezometer
- 1065PZ1A Abandoned Shallow Groundwater Monitoring Well / Piezometer
- 231GW27 Intermediate Groundwater Monitoring Well
- 1065PZ2B Intermediate Piezometer
- 1065MW9B Abandoned Intermediate Groundwater Monitoring Well / Piezometer
- Approximate Direction of Groundwater Flow
- Location of Building 1065 Interim Action Area Boundary provided by MACTEC. The Interim Action took place in November 2003.
- Building 1027 10,000 Gallon Fuel Oil Underground Storage Tank (UST) (Montgomery Watson, 1996c)
- Former Building Outline
- Former Fill Site 6A Excavation Boundary
- Approximate Lateral Extent of Fill Site 6B
- 201 Building and Number

Q2-2007 Groundwater Concentrations

< 5 Q2-2007 Dissolved Arsenic Concentration (µg/L) (EPA Method SW6010/SW6020)

Q1-2007 Groundwater Concentrations

< 5/ < 5/ 1.1 Q1-2007 Dissolved Arsenic Concentration (µg/L) (EPA Method SW6010/SW6020)

Second value represents a blind duplicate.
Third value represents a quality control duplicate.

BUILDING 1065/1027 AND FILL SITE 6 REDOX DIAGRAMS FOR SHALLOW GROUNDWATER

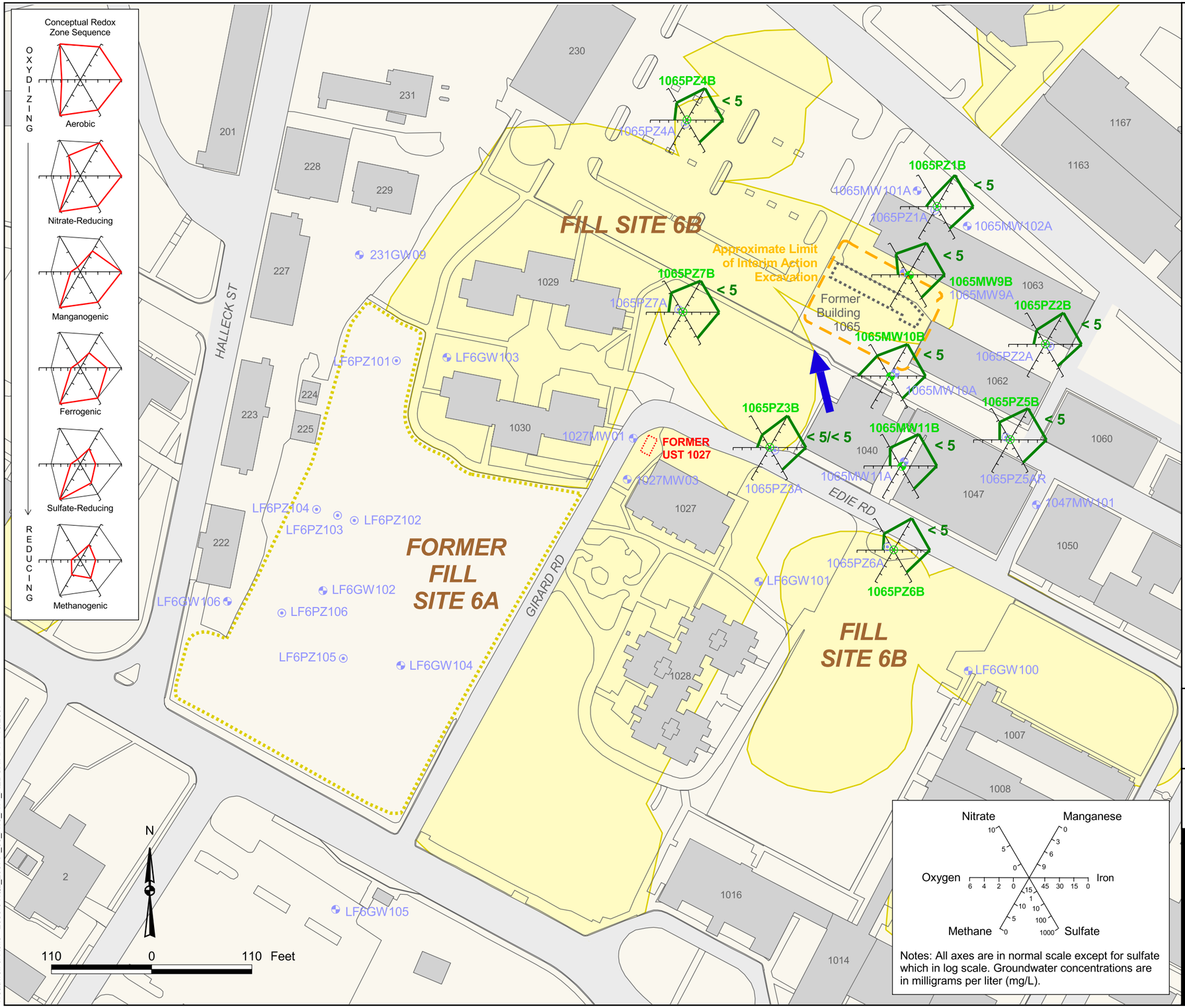
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FIGURE A-11-6

Treadwell & Rollo 2893.04\Q2_2007\A_03_A10_A11_REDOX.APR 10/2007



LEGEND

- 1065MW10B Intermediate Groundwater Monitoring Well
- 1065PZ1B Intermediate Piezometer
- 231GW09 Shallow Groundwater Monitoring Well
- 1065PZ1A Shallow Piezometer
- Approximate Direction of Groundwater Flow
- Location of Building 1065 Interim Action Area Boundary provided by MACTEC. The Interim Action took place in November 2003.
- Building 1027 10,000 Gallon Fuel Oil Underground Storage Tank (UST) (Montgomery Watson, 1996c)
- Former Building Outline
- Former Fill Site 6A Excavation Boundary
- Approximate Lateral Extent of Fill Site 6B
- 201 Building and Number
- Q1-2007 Groundwater Concentrations
- < 5/< 5 Q1-2007 Dissolved Arsenic Concentration (µg/L) (EPA Method SW6010/SW6020)
  - Second value represents a blind duplicate.

Notes:
The intermediate groundwater monitoring wells and piezometers were not sampled during the Second Quarter 2007.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

BUILDING 1065/1027 AND FILL SITE 6
REDOX DIAGRAMS FOR
INTERMEDIATE GROUNDWATER

Treadwell&Rollo

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October 2007

FIGURE A-11-7

Treadwell & Rollo 2893.04\Q2_2007\A_03_A10_A11_REDOX.APR 10/2007

First Quarter 2007

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area 1066 Well No. MW65PZ1A

Project Number 2893 Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By P.Cornish Sampled by P.Cornish Date 3/1/07

WELL PURGING

PURGE VOLUME

Well casing diameter

[X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC) : 8.98

Depth to Water (WL, ft. below TOC) : 5.46

Depth to free phase (FP, ft. below TOC) :

Number of borehole volumes to be purged

[ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type

[ ] Normal [X] Pump \ Type Peri.

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate Purge Rate 300 ml/min

2.8 L gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI556 / Hach 2100

Time	/ Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	(ft.) DTW	Comments
1320	/ initial	6.85	12.73	1.90	1271 µs	-71.0	8	-	
1323	/ 900 ml	6.92	12.56	0.63	1274	-86.8	7	5.69	
1326	/ 1800	6.94	12.43	0.69	1271	-91.5	7	5.81	
1329	/ 2700	6.96	12.48	0.71	1270	-96.0	5	6.02	
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Comments Purge water storage/disposal [ ] Drummed onsite [X] Other onsite Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled 3/1/07 / 1338

Purging Equipment Pump - Type Peristaltic Bailer - Type Other

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1056PZ1A	1x 500ml Poly NP	CAT	2187	
	1x 500ml Poly HNO3			
	2x 1L Amber NP			
	6x 40ml Voa HCl			

QUALITY CONTROL SAMPLES

1x 250ml Poly NP

Duplicate Samples 1x 500ml Poly NaOH+ZnAc

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Fill Site 6B | Well No.: 1005P21B

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 3/7/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 21.85

Depth to Water (WL, ft. below TOC): 1.30

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disposable

[X] Normal [ ] Pump \ Type:

[ ] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[X] Other: Middle

PURGE VOLUME CALCULATION

20.55 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 55.5 gals CALCULATED PURGE VOLUME

Total Purge Time: 20 min.

Recharge Rate: Good | Purge Rate: 3 gpm

56.9 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 550A, Hach, Orion, Ultrameter

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	DTW	Comments
0909	initial	6.76	14.3	—	1291	—	17		
0915	18.5	7.36	15.1	—	1351	—	5	7.41	
0921	37.0	7.49	15.6	—	1372	—	3	7.98	
0927	55.5	7.53	15.8	—	1401	—	3	7.99	
				Post 0.36		Post -39			

Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other: Baker Tanks

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/7/07 / 0935

Purging Equipment: Pump - Type: 2" Redi-Flo | Bailer - Type: Disposable | Other:

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Dissolved Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1005P21B	1 NPC Amber	CT	2799	
	1 500 mL NP Poly			
	1 250 mL NP Poly			
	1 500 mL HNO3 Poly			
	1 X 500 mL NaOH+Zinc Poly			

QUALITY CONTROL SAMPLES: Duplicate Samples: 6 total vocs

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area 1065 | Well No. 1065PZ24

Project Number 2893 | Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By P. Cornish | Sampled by D. Cornish | Date 3/1/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 7.80

Depth to Water (WL, ft. below TOC): 3.09

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type

[ ] Normal [X] Pump \ Type Peri.

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

36 gals ACTUAL PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate 300ml/min

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI556 / Hach 2100

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	(FL) DTW: Comments
1014 / initial	6.61	14.64	0.99	814 µs	-31.6	48	-
1017 / 900ml	6.66	14.75	0.55	815	-63.7	25	3.42
1020 / 1.8L	6.50	14.68	0.45	785	-73.5	24	3.49
1023 / 2.7	6.52	14.66	0.43	753	-75.4	24	3.52
/							
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Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other onsite Tank

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled 3/1/07 / 1032

Purging Equipment: Pump - Type Peristaltic | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065PZ2A	1x500ml Poly NP	CAT	2187	
	1x500ml Poly HNO3			
	1x250ml Poly NP			
	1x500ml Poly NaOH+ZnOAC			

QUALITY CONTROL SAMPLES

Duplicate Samples 5x40ml HCl Vials, 2x1L Amber NP

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Fill Site 6B | Well No.: 1065P22B

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 3/6/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 21.39

Depth to Water (WL, ft. below TOC): 1.52

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disposable

[X] Normal [ ] Pump \ Type:

[ ] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[X] Other: Middle

PURGE VOLUME CALCULATION

19.87 (Water Column Length) x 0.9 (Water Volume/ft) x ____ (No. Vols) = 53.65 gals CALCULATED PURGE VOLUME

54.0 gals ACTUAL PURGE VOLUME

Total Purge Time: 15 min.

Recharge Rate: Slow Good | Purge Rate: 3.5 gpm

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556A / Hach / Other: Horiba

Time	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND mS/cm	ORP (mV)	Turbidity (NTU)	Comments
1358		7.72	17.6	—	640	—	77	DTW
1402	17.9	7.18	17.9	—	635	—	42	9.18
1407	35.8	7.09	17.9	—	639	—	17	9.25
1412	53.7	7.06	17.8	—	637	—	14	9.27
				Post 0.53		Post 206		

Comments: ____ Purge water storage/disposal: [ ] Drummed onsite [X] Other: Baker Tanks

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 3/6/07 / 1420

Purging Equipment: Pump - Type: 2" Redi-Flo | Bailer - Type: Disposable | Other:

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Dissolved Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065P22B	1 LNP Amber	CTI	2145	
	1 500mL NP Poly			
	1 250mL NP Poly			
	1 500mL HNO3 Poly			

QUALITY CONTROL SAMPLES

1 500mL NaOH+Zinc Poly

Duplicate Samples: 3 1L Glass

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area 1065 | Well No. 1065PZ3A

Project Number 2893 | Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By P.Cornish | Sampled by P.Cornish | Date 3/1/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 10.70

Depth to Water (WL, ft. below TOC): 9.32

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type

[ ] Normal [X] Pump \ Type Peri

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate 400 ml/min

4L gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI 556 / Hach 2100

Time	/ Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	(ft.) DTW:	Comments
850	/ initial	6.64	13.56	1.67	769 µs	195.7	7	9.46	
853	/ 1200 ml	6.69	11.77	1.47	736	197.0	5	9.49	
856	/ 2.4L	6.68	11.71	1.27	717	197.1	4	9.49	
859	/ 3.6	6.69	11.83	1.19	712	189.1	3	9.54	
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Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled 3/1/07 / 908

Purging Equipment: Pump - Type Peristaltic | Bailer - Type | Other

Sample Filtered: (Yes) / No | Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065PZ3A	3 x 500ml Poly NP	CAT	219	MS/MSD
	3 x 250ml Poly, NP			
	6 x 1L Amber NP			
	3 x 40ml Voa HCl			
	3 x 500ml Poly HNO_3			

QUALITY CONTROL SAMPLES

Duplicate Samples 3 x 500ml Poly NaOH + ZnOAC

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell & Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Building 1065 | Well No.: 1065 PZ3B
Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: DR | Sampled by: DR | Date: 2/28/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 24.82
Depth to Water (WL, ft. below TOC): 9.15
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
(8)	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type 2" Redi-Flo
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft) 10'
[X] Near Bottom Depth (ft) 20'
[ ] Other

PURGE VOLUME CALCULATION

15.67 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 42.3 gals CALCULATED PURGE VOLUME

Total Purge Time: 21 min.
Recharge Rate: N/A
Purge Rate: 2 gpm

43.0 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Hach / Ultrameter / YSI / other

Time	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
858	DRY	6.1	13.6	—	975	—	35	Clear
905	14.1	6.6	13.6	—	865	—	41	"
912	28.2	6.7	13.2	—	863	—	53	"
919	42.3	6.7	13.1	Post. 0.71	861	Post 211	51	"

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 2/28/07 / 925

Purging Equipment: Pump - Type: 2" Redi-Flo | Bailer - Type: N/A | Other:
Sample Filtered: (Yes) / No | Filtered Sample Analysis: Dissolved Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065P23B	6 x 1L Ambers NP	C+T	2182	Collected MS/MSD
	3 x 500mL NP Poly			
	3 x 500mL HNO_3 Poly			
	3 x 500mL NaOH 2 mL			

QUALITY CONTROL SAMPLES

9 x 40mL HCL Vials

Duplicate Samples

Original Sample No.	Duplicate Sample No.
1065P23B	DUP022807 2A

2 x 1L NP Ambers
1 x 500mL HNO_3 Poly
1 x 500mL NP Poly
1 x 500mL NaOH Poly
3 x 40mL HCL vials

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area 1065 | Well No. 1065PZ4A

Project Number 2893 | Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By R. Cornish | Sampled by R. Cornish | Date 3/1/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 10.91

Depth to Water (WL, ft. below TOC): 4.85

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type

[ ] Normal [X] Pump \ Type Peri.

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate 300ml/min

3L gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI 556 / Mach 2100

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	(ft.) DTW: Comments
1055 / initial	6.69	15.66	1.05	1419 µs	-97.1	5	
1058 / 900 ml	6.67	15.47	0.75	1422	-107.8	4	5.49
1101 / 1800	6.61	15.44	0.57	1422	-112.1	5	5.65
1104 / 2700	6.52	15.47	0.53	1422	-114.1	4	6.10
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Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other Onsite Tank

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled 3/1/07 / 1112

Purging Equipment: Pump - Type Peristaltic | Bailer - Type | Other

Sample Filtered: ~~Cost~~ No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
~~DT~~ 1065PZ4A	1x500ml Poly NP	C&T	2187	
	1x500ml Poly HNO3			
	1x500ml Poly NaOH + ZnAc			
	2x1L Amber NP			

QUALITY CONTROL SAMPLES 3x40ml VoaHCl

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg. 1005 | Well No.: 1005 P24B

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 3/1/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 22.31

Depth to Water (WL, ft. below TOC): 2.40

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disposable

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[X] Other:

PURGE VOLUME CALCULATION

19.91 (Water Column Length) X ___ (Water Volume/ft) X ___ (No. Vols) = ___ gals CALCULATED PURGE VOLUME

Total Purge Time: 10 min.

Recharge Rate: —

Purge Rate: 0.25 gpm

2.25 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Hach / 451 / Orion / Ultrameter

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND µMS/cm	ORP (mV)	Turbidity (NTU)	Comments
1146	0	6.8	13.6	Pre 0.36	643	—	16	clear
1149	0.75	6.8	[illegible]	—	704	—	38	
1152	1.50	6.8	14.5	—	784	—	103	
1155	2.25	6.8	14.6	Post 0.64	791	Post 127	221	light cloudy

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/1/07 / 1200

Purging Equipment: Pump - Type: N/A | Bailer - Type: Disposable | Other:

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Dissolved Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1005P24B	2x 1L NP Amber	CLT	2188	
	1x 500mL NP Poly			
	1x 250mL NP Poly			
	1x 60mL HNO3 Poly			

QUALITY CONTROL SAMPLES

1x 500mL NaOH+Zinc poly

Duplicate Samples: 3x40 mL HCl VOAs

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Fill Site 6B | Well No.: 1065P25AR

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 3/1/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 9.21

Depth to Water (WL, ft. below TOC): 3.33

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disposable

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[X] Other:

PURGE VOLUME CALCULATION

6.08 (Water Column Length) x ___ (Water Volume/ft) x ___ (No. Vols) = ___ gals CALCULATED PURGE VOLUME

Total Purge Time: 10 min

Recharge Rate: —

Purge Rate: 0.25 gpm

2.25 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Hach / YSI / Orion / Ultrameter

Time	Liters or (Gallons)	pH	Temp °C °F	DO (mg/L)	Sp. COND µS/cm	ORP (mV)	Turbidity (NTU)	Comments
1304	0	7.1	13.2	DR 0.49	1485	—	7100	Brownish / cloudy
1307	0.75	6.9	13.2	—	1481	—	7100	cloudy
1310	1.50	6.9	13.3	—	1473	—	712	clearing
1313	2.25	6.9	13.4	Post 0.82	1477	Post 118	344	"

Comments: ___ Purge water storage/disposal: [ ] Drummed onsite [X] Other: Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/1/07 / 1320

Purging Equipment: Pump - Type: N/A | Bailer - Type: Disposable | Other:

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Dissolved Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065P25AR	2L NP Ambers	CFT	2188	
	1 500mL NP Poly			
	1 500mL HNO3 Poly			
	1 500mL NaOH+Zinc Poly			
	1 250mL NP Poly			

QUALITY CONTROL SAMPLES

Duplicate Samples: 3 x 40mL VOAs

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell & Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Fill Sl. 6B | Well No.: 1065P25B

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 3/1/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 25.05

Depth to Water (WL, ft. below TOC): 2.50

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disposable

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[X] Other:

PURGE VOLUME CALCULATION

23.35 (Water Column Length) X — (Water Volume/ft) X — (No. Vols) = — gals CALCULATED PURGE VOLUME

Total Purge Time: 10 min

Recharge Rate: —

Purge Rate: 0.25 gpm

2.25 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Itech / YSI / Orion / Ultrameter

Time	Liters or (Gallons)	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1344	0	7.7	12.9	Pr 0.19	864	—	11	clear
1347	0.75	7.2	13.2	—	780	—	14	"
1350	1.50	7.1	13.5	—	745	—	29	"
1353	2.25	7.1	13.7	Post 0.28	724	Post 136	45	"

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/1/07 / 1405

Purging Equipment: Pump - Type: N/A Bailer - Type: Disposable Other:

Sample Filtered: (Yes) / No Filtered Sample Analysis: Dissolved Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065P2.5B	2 L NP Amber	C+T	21889	
	1 500mL NP Poly			
	1 250mL NP Poly			
	1 500mL HNO3 Poly			

QUALITY CONTROL SAMPLES

1 500 mL NaOH + Zinc Poly

Duplicate Samples: 3 x 40mL HCL VOAs

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Fill Site 6B | Well No.: 1065 P26B

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 3/2/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [✓] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 26.42

Depth to Water (WL, ft. below TOC): 10.86

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [✓] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [✓] Bailer \ Type: Disposable

[✓] Normal [ ] Pump \ Type:

[ ] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[X] Other: Middle

PURGE VOLUME CALCULATION

15.56 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 42.01 gals CALCULATED PURGE VOLUME

43.00 gals ACTUAL PURGE VOLUME

Total Purge Time: 15 min.

Recharge Rate: good | Purge Rate: 3 gpm

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556A / Hach / Orion / Ultrameter

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1002	initial	7.42	16.5	–	854	–	20	DTW
1007	14.0	6.85	17.0	–	827	–	5	13.00
1012	28.0	6.71	16.5	–	826	–	3	13.01
1017	42.0	6.70	16.3	–	820	–	2	13.02
				Post 0.29		Post 123		

Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other: Baker Tanks

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/7/07 / 1025

Purging Equipment: Pump - Type: 2" Redi-Flo | Bailer - Type: Disposable | Other:

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Dissolved Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065P26B	1 L NP Amber	CHT	2199	
	1 500 mL NP Poly			
	1 250 mL NP Poly			
	1 500 mL HNO_3 Poly			

QUALITY CONTROL SAMPLES 1 x 500 mL NaOH + 2 mL Poly

Duplicate Samples: 3 Hach Vials

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	1065P26B RB 1065MW9A
Transfer	
Other:	

Treadwell & Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Building 1065 area — Well No.: 1065P2 7A

Project Number: 2898 — Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DA — Sampled by: DA — Date: 2/27/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [✓] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 10.75

Depth to Water (WL, ft. below TOC): 3.20

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [✓] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disposable
[ ] Normal [ ] Pump \ Type:
[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):
[ ] Near Bottom Depth (ft):
[X] Other:

PURGE VOLUME CALCULATION

7.55 (Water Column Length) X ___ (Water Volume/ft) X ___ (No. Vols) = ___ gals CALCULATED PURGE VOLUME

Total Purge Time: 10 min.

Recharge Rate: ---

Purge Rate: 0.25 gpm

2.25 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Ultrameter / Horiba / YSI / Hach

Time	/ Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1146	/ 0	7.0	11.7	Pre @.29	1107	—	183	cloudy
1149	/ .75	7.0	12.0	—	1110	—	221	"
1152	/ 1.50	7.0	12.2	—	1111	—	>1000	"
1155	/ 2.25	7.1	12.9	Post 0.91	1114	Post 192	>1000	"
	/							
	/							
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	/							
	/							

Comments: ___ Purge water storage/disposal: [ ] Drummed onsite [X] Other: Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 2/27/07 / 1205

Purging Equipment: Pump - Type: N/A — Bailer - Type: Disposable bailer — Other:

Sample Filtered: (Yes) / No — Filtered Sample Analysis: Dissolved Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065P2 7A	6 X 1L NP Amber	C&T	2180	Collected MS/MSD
	3 X 500mL HNO3 FF Poly			
	3 X 500mL NaOH+ZnAc Poly			
	3 X 1L NP Poly			

QUALITY CONTROL SAMPLES 9 x 40 mL HCl vials

Duplicate Samples

Original Sample No.	Duplicate Sample No.
1065P2 7A	PBP 022707 2B

1 X 1L NP Poly
2 X 1L NP Amber
1 X 500 mL FF HNO3
1 X 500 mL NaOH+ZnAc
3 X 40mL HCl Vials

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell & Rollo
Environmental and Geotechnical Consultants

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg. Fill Site 6B | Well No.: 1065 P27B
Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: DR | Sampled by: DR | Date: 3/1/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 23.76
Depth to Water (WL, ft. below TOC): 2.81
Depth to free phase (FP, ft. below TOC):

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.58
12	4	2.22

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disposable
[ ] Normal [ ] Pump \ Type:
[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):
[ ] Near Bottom Depth (ft):
[X] Other

PURGE VOLUME CALCULATION

20.97 (Water Column Length) X — (Water Volume/ft) X — (No. Vols) = gals CALCULATED PURGE VOLUME

Total Purge Time: 10 min.
Recharge Rate: —
Purge Rate: 0.25 gpm

2.25 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Hach / YSI / Orion / Ultrameter

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1226 / 0	7.0	13.7	Pre 0.41	1323	—	73	clear
1229 / 0.75	6.9	14.0	—	1357	—	133	"
1232 / 1.50	6.8	14.3	—	1357	—	141	"
1235 / 2.25	6.8	14.4	Post 1.03	1359	Post 131	159	"
/							
/							
/							
/							
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/							
/							

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/1/07 / 1245

Purging Equipment: Pump - Type: N/A | Bailer - Type: Disposable | Other:
Sample Filtered: (Yes) / No | Filtered Sample Analysis: Dissolved Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065 P27B	2 x 1 L NP Amber	CTT	21898	
	1 x 500 mL NP Poly			
	1 x 250 mL NP Poly			
	1 x 500 mL HNO_3 Poly			

QUALITY CONTROL SAMPLES

1 x 500 mL $NaOH + Zinc$ Poly
3 x 40 mL HCl VOAs

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Fill Site 6B | Well No.: 1065MW9A

Project Number: 2693 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DA | Sampled by: DA | Date: 3/7/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 13.45

Depth to Water (WL, ft. below TOC): 3.52

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disposable

[X] Normal [ ] Pump \ Type:

[ ] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[X] Other: Middle

PURGE VOLUME CALCULATION

9.93 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 26.81 gals CALCULATED PURGE VOLUME

27.0 gals ACTUAL PURGE VOLUME

Total Purge Time:

Recharge Rate: Slow | Purge Rate: 2 gpm

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556 MPS / Hach / Orion / Horiba

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND mS/cm	ORP (mV)	Turbidity (NTU)	Comments
1140	10.84	7.01	15.0	—	1277	—	3	DTW
1142	8.94	6.75	15.3	—	1303	—	3	9.85
1148	17.88	6.71	15.6	—	1301	—	2	9.91
1152	26.82	6.70	15.7	—	1298	—	3	9.90
				Post 0.52		Post -65		

Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tanks

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/7/07 / 1200

Purging Equipment: Pump - Type: 2" Redi-Flo | Bailer - Type: Disposable | Other:

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Dissolved Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065 MW 9A	1 L NP Amber	CET	2199	
	1 500 mL NP Poly			
	1 250 mL NP Poly			
	1 500 mL HNO3 Poly			

QUALITY CONTROL SAMPLES

1 500 mL Na OH + Zinc Poly

Duplicate Samples: 3 HCL Vocs

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Fill Sk 6B | Well No.: 1005 MW 93

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 3/7/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 31.90

Depth to Water (WL, ft. below TOC): 0.00

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disposable

[X] Normal [ ] Pump \ Type:

[ ] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[X] Other: middle

PURGE VOLUME CALCULATION

31.90 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 86.13 gals CALCULATED PURGE VOLUME

Total Purge Time: 12 min.

Recharge Rate: Great | Purge Rate: 4 gpm

87.0 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556A / Hach / Orion / Ultrameter

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND µS/cm	ORP (mV)	Turbidity (NTU)	Comments
1234	14.31	7.67	17.7	-	1140	-	17	DTW
1241	28.71	7.12	17.5	-	1001	-	9	3.39
1248	57.42	7.03	17.6	-	935	-	7	3.38
1255	86.13	7.02	17.8	-	905	-	5	3.38
				Pos 0.21		Pos 12		

Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other: Baker Tanks

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/7/07 1305

Purging Equipment: Pump - Type: 2" Redi-Flo | Bailer - Type: Disposable | Other:

Sample Filtered: Yes / No | Filtered Sample Analysis: Dissolved Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1005 MW 93	1 L NP Amber	C+T	2190	
	1 500 mL NP Poly			
	1 250 mL NP Poly			
	1 500 mL HNO3 Poly			

QUALITY CONTROL SAMPLES

1 500 mL NaOH + Zinc Poly

Duplicate Samples: 3 1/L VOCs

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell & Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg 1065 | Well No.: 1065MW10A

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BF | Sampled by: BF | Date: 3/7/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 13.62

Depth to Water (WL, ft. below TOC): 4.18

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: disp

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[X] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

3.0 gals ACTUAL PURGE VOLUME

Total Purge Time:

Recharge Rate:

Purge Rate: 0.5 gpm

DI, no ORP

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron Ultra, V3155, thru flow cell

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND mS/cm	ORP (mV)	Turbidity (NTU)	Comments
1236				1.0				
1239	1.0	6.9	13.1		721		71000	
1242	2.0	6.8	13.4		725		218	
1245	3.0	6.8	13.6		726		186	
1250				0.6		-109		

Comments: Purge water storage/disposal: [X] Onsite [ ] Other: Baker

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/7/07 / 1250

Purging Equipment: Pump - Type: Bailer - Type: disp Other:

Sample Filtered: (Yes) / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065MW10A	1X1L Amb	CT	2261	
	3X 40mL HCl			
	3X 500 poly			
	1X250 poly			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg 1065 | Well No.: 1065MW10B

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BP | Sampled by: BP | Date: 3/7/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 27.92

Depth to Water (WL, ft. below TOC): 3.40

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type

[X] Normal [X] Pump \ Type 2" grundfos

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[X] Near Bottom Depth (ft) 25'

[ ] Other

PURGE VOLUME CALCULATION

24.52 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 66.2 gals CALCULATED PURGE VOLUME

Total Purge Time: 25 min

Recharge Rate: 1.5 gal/min

Purge Rate: ~~3 gpm~~ 1 gpm

66.5 gals ACTUAL PURGE VOLUME

Hach 2100

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron Ultra, YSI 55, Orion, UAP

Time	/ Liters or Gallons	pH	Temp °C °F	DO mg/L	Sp. COND mS ~~uS~~/cm	ORP (mV)	Turbidity (NTU)	Comments
1316	/			2.3				
1338	/ 22.5	7.0	15.9		825		9	
1347	/ 44.5	6.8	16.6		827		5	
1357	/ 66.5	6.8	16.7	4.8	825	1.9	5	
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							

Comments: | Purge water storage/disposal: ~~[ ] Drummed on site~~ [X] Other Baker

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/7/07 / 1400

Purging Equipment: Pump - Type 2" grundfos | Bailer - Type | Other

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065MW-10B	1X1L Amb	CT	2201	
	3X40ml vials			
	3X500 Poly			
	1X250 poly			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	1065MW10ARB1065MW10B
Transfer	
Other:	

1300

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Fill Site 6B | Well No.: 1065 MW 11A

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DA | Sampled by: DA | Date: 3/7/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 14.34

Depth to Water (WL, ft. below TOC): 8.94

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disposable

[X] Normal [ ] Pump \ Type:

[ ] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[X] Other: Middle

PURGE VOLUME CALCULATION

5.4 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 14.58 gals CALCULATED PURGE VOLUME

Total Purge Time: 15 min.

Recharge Rate: okay | Purge Rate: 1 gpm

15.0 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556 MPS / Horiba / Orion / Ultrameter

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	DTW	Comments
1318	initial	7.72	15.6	—	597	—	51		
1322	4.86	7.20	15.6	—	589	—	23	10.02	
1327	9.72	6.97	16.2	—	610	—	9	10.03	
1331	14.58	6.94	16.4	—	623	—	6	10.04	
				Post 0.32		Post 97			

Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other: Baker Tanks

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/7/07 / 1340

Purging Equipment: Pump - Type: 2" Redi-Flo | Bailer - Type: Disposable | Other:

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Dissolved metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065 MW 11A	1 L NP Amber	CTT	2199	
	1 500mL NP Poly			
	1 250 mL NP Poly			
	1 500 mL HNO3 Poly			

QUALITY CONTROL SAMPLES

1 500 mL NaOH/Zinc Poly

Duplicate Samples: 3 1/2L VOCs

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultants

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Fill Site 6B | Well No.: 1065 MW 11B

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 3/7/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 29.56

Depth to Water (WL, ft. below TOC): 8.74

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disposable

[X] Normal [ ] Pump \ Type:

[ ] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[X] Other: Middle

PURGE VOLUME CALCULATION

20.82 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 56.2 gals CALCULATED PURGE VOLUME

Total Purge Time: 15 min.

Recharge Rate: good | Purge Rate: 4 gpm

57.0 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 550A / Hach / Orion / Ultrameter

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1350	initial	7.34	16.5	—	829	—	12	DTW
1355	18.74	6.82	17.0	—	833	—	8	13.84
1359	37.48	6.79	17.2	—	830	—	7	13.84
1404	56.21	6.80	17.3	—	829	—	4	13.84
				Post 0.27		Post 75		

Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other: Baker Tanks

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/7/07 / 1410

Purging Equipment: Pump - Type: 2" Redi-Flo | Bailer - Type: Disposable | Other:

Sample Filtered: (Yes) No | Filtered Sample Analysis: Dissolved Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065 MW 11B	1 L NP Amber	CT	2199	
	1 500 mL NP Poly			
	1 250 mL NP Poly			
	1 500 mL HNO3 Poly			

QUALITY CONTROL SAMPLES

1 500 mL NaOH 12 wk Poly

Duplicate Samples: 3 HCL VOCs

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell & Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area 1065 | Well No. 1065MW101

Project Number 2893 | Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By P. Cornish | Sampled by P. Cornish | Date 3/1/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 9.09

Depth to Water (WL, ft. below TOC): 5.60

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [N] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type Peri.
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate 300ml/min

2 L gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI556 / Hach 2100

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	(FL.) DTW: Comments
1132 / initial	6.46	14.08	0.94	1407µs	-54.2	4	-
1135 / 900ml	6.46	13.83	0.67	1324	-76.0	2	6.04
1138 / 1800	6.48	13.77	0.53	1318	-82.1	2	6.21
1141 / 2700	6.50	13.66	0.48	1305	-85.1	2	6.30
/							
/							
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/							
/							
/							

Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other Onsite Tank

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled 3/1/07 / 1150

Purging Equipment: Pump - Type Peristaltic | Bailer - Type | Other

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065MW101	1x500ml Poly NP	C&T	2187	
	1x500ml Poly HNO_3			
	2x1L Amber NP			
	6x40ml Vial HCl			

QUALITY CONTROL SAMPLES

Duplicate Samples 1x250ml Poly NP; 1x500ml Poly NaOH + ZnOAc

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1065 | Well No.: 1065MW102

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: R. Cornish | Sampled by: R. Cornish | Date: 3/1/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 7.00

Depth to Water (WL, ft. below TOC): 4.12

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type: Peri.
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = CALCULATED PURGE VOLUME: gals

Total Purge Time

Recharge Rate | Purge Rate: 350 ml/min

ACTUAL PURGE VOLUME: 3.2 L gals

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI556/Hach 2100

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	(ft.) DTW: Comments
1215 / initial	6.57	12.23	5.93 ~~275~~	~~229~~	-1.1	9	-
1218 / 1050 ml	6.47	12.39	3.20	456 ms	8.8	9	4.59
1221 / #2100	6.46	12.39	2.20	444	7.6	8	4.88
1224 / 3150	6.47	12.26	3.37	392	8.8	5	4.98
1227 / 3200	6.46	12.29	3.57	388	14.8	4	5.05
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments | Purge water storage/disposal: [ ] Drummed onsite [X] Other Onsite Tank

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 3/1/07 / 1238

Purging Equipment: Pump - Type: Peristaltic | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065MW102	1x500ml Poly NP	CET	2187	
	1x 500ml Poly HNO3			
	6x40ml Vox HCl			
	2x1L Amber NP			

QUALITY CONTROL SAMPLES

Duplicate Samples: 1x250ml Poly NP; 1x500ml Poly NaOH+ZnOAc

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Fill Slk 6B Well No.: 1065P26A

Project Number: 2893 Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR Sampled by: DR Date: 3/1/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC) :

Depth to Water (WL, ft. below TOC) :

Depth to free phase (FP, ft. below TOC) :

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type Disposable

[ ] Normal [ ] Pump \ Type

[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate Purge Rate gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/							
/							
/	CAN NOT FIND WELL. BURIED BY TANBARK AND DIRT.						
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled /

Purging Equipment Pump - Type Bailer - Type Other

Sample Filtered: Yes / No Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Fill Site 6 | Well No.: 1047MW101

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 3/1/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 14.69

Depth to Water (WL, ft. below TOC): 4.66

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
(8)	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type: 2" Redi-Flo
[ ] Modified (max 5 gpm) [X] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

10.03 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 27.1 gals CALCULATED PURGE VOLUME

28.0 gals ACTUAL PURGE VOLUME

Total Purge Time: 20 min

Recharge Rate: NA | Purge Rate: 1.5 gpm

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI / Hach / Orion / Ultrameter

Time	Liters or (Gallons)	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
901	0	5.4	12.3	—	251	—	707	cloudy
907	9.0	5.9	12.9	—	122	—	107	clear
913	18.0	6.0	13.0	—	126	—	37	"
919	27.0	6.1	13.0	Post. 0.71	123	Post. 171	18	"
* Collected MS/MSD								

Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other: Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/1/07 / 930

Purging Equipment: Pump - Type: 2" Redi-Flo | Bailer - Type: Disposable | Other: Broken Cap

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Dissolved Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1047MW101	3 x 500mL NP H2SO4 Poly	CT	31189	MS/MSD
	3 x 250mL NP Poly			
	3 x 500mL HNO3 Poly			
	3 x 500mL NaOH + Zinc Poly			

QUALITY CONTROL SAMPLES

24 x 40mL HCl was

Duplicate Samples

Original Sample No.	Duplicate Sample No. 950
1047MW101	DUP030107A

1 x 500mL NP
1 x 500mL HNO3
1 x 500mL NaOH + Zinc
1 x 250mL NP Poly
9 x 40mL HCl vials
C.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

1047MW101CL CAS

COC # 31189

Second Quarter 2007

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1065 | Well No.: 1065MW103A

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P.Cornish | Sampled by: P.Cornish | Date: 6/7/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 8.71

Depth to Water (WL, ft. below TOC): 4.97

Depth to free phase (FP, ft. below TOC):

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type

[ ] Normal [X] Pump \ Type Peri.

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[X] Near Bottom Depth (ft) ~8.5

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 10 mins

Recharge Rate: Purge Rate: 250ml/min

2.25L ~~gals~~ ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556 / Hach Turb.

Time / Liters or ~~Gallons~~ ml	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
0850 / Int	6.8	17.57	2.15	1990µS	200	63.0	DTW = 4.97
0853 / 750 ml	6.8	17.7	1.31	1865	201	21.0	DTW = 5.54
0856 / 1500 ml	6.8	18.3	1.22	1718	204	78.1	DTW = 5.72
0859 / 2250ml	6.8	18.4	1.48	1595	204	72.9	DTW = 6.02
/							
/							
/							
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/							
/							
/							
/							

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other Onsite Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6/7/07 / 0905

Purging Equipment: Pump - Type: Geotech Peri pump | Bailer - Type: Disp. | Other:

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Dissolved Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065MW103A	1x 500ml Poly Np	CAT	2127	
	1x 500ml Poly HNO_3			
	1x 250ml Poly Nc			
	6x 40ml VOA HCL			

QUALITY CONTROL SAMPLES 1x500 ml poly NaOH + ZnAc

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MINI-CAP AREAS
APPENDIX SECTION A-12
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2007
Presidio of San Francisco, California

1.0 INTRODUCTION AND BACKGROUND

The Mini-Corrective Action Plans (Mini-CAP) document addresses, individually, the environmental concerns associated with USTs at 13 areas, including 12 buildings and one FDS area. Of the 13 sites listed in the *Mini-CAPs Site Reviews and Recommendations to Address Former Petroleum Release Sites* (Mini-CAP Report) prepared by Geo/Resource Consultants Inc. (GRC) in March 2004, only five are included in the Presidio-wide Groundwater Monitoring Program at the Presidio. The Mini-CAP Areas associated with the Presidio-wide Groundwater Monitoring Program include Buildings 514, 1213, 1221 and 1260 that formerly used USTs for fuel oil heating in residences and offices and gasoline fuel storage for services stations. Additionally, the Mini-CAP Areas also include one section of the former FDS pipelines associated with the Infantry Terrace/Sibert Residential Loop (MT-14) (GRC, 2004). Each of the five Mini-CAP Areas included in the groundwater monitoring program are discussed in more detail below.

The five Mini-CAP Areas included in the Presidio-wide monitoring program have been divided into two areas (Area 1 and Area 2), based on location, in order to minimize the number of figures associated with this section and simplify the reporting. Mini-CAP Area 1 includes Building 1213, Building 1221, and Building 1260 and their locations and groundwater elevation contours are illustrated on Figures A-12-1 and A-12-2. Mini-CAP Area 2 includes Building 514 and FDS Section MT-14. The site plans, well locations, and groundwater elevation contours associated with Mini-CAP Area 2 are illustrated on Figures A-12-3 and A-12-4.

From 1993 until 1996, Montgomery Watson (MW) removed the USTs and associated piping from 15 buildings that historically used USTs. MW prepared the *Draft Mini-CAPs* in 1999 detailing subsurface investigation results at all 15 sites. In May 1999, International Technologies (IT) Corporation summarized FDS removal activities in the report titled *FDS Closure Report, Presidio of San Francisco, California* (FDS Closure Report). In this report, a CAP was recommended for FDS Sections MT-13 and MT-14. The portion of the FDS associated with MT-14 was subsequently incorporated into the Mini-CAP document.

In March 2003, the Trust requested review of the Mini-CAP and CAP reports completed by MW and IT Corporation by GRC. The Mini-CAP Report recommends additional site investigations and groundwater monitoring for Buildings 514, 1213, 1221, 1260, and the FDS Section MT-14 (GRC, 2004).

In August 2004, GRC installed 11 monitoring wells at the five Mini-CAP Areas. These wells were sampled by GRC for the first time in September 2005 (Third Quarter 2005), but were not added to the Presidio-wide Groundwater Monitoring Program until the Fourth Quarter 2005. Groundwater samples collected from the Mini-CAP wells in September 2005 were analyzed for TPHg, TPHd, TPHfo, VOCs, dissolved metals, PCBs and/or PAHs. The data associated with the September 2005 sampling event has been validated and is presented in the GRC report entitled *Mini-CAP Additional Investigations, Excavation, and Groundwater Monitoring Well Installations to Address Former Petroleum Release Sites* dated August 2007. The September 2005 data has also been added to Table A-12-2 through A-12-4. Groundwater samples collected from mini-CAP wells in the Fourth Quarter 2005 were analyzed for DO, TPHg, TPHd, TPHfo, BTEX, and MTBE (Table A-12-1).

Cleanup of the Mini-CAP Areas must adhere to Site Cleanup Requirements (SCRs) per *Order No. R2-2003-0080, Revised Site Cleanup Requirements and Recission of Order No. 91-082 and Order No. 96-070* (RWQCB, 2003). The SCRs are applicable soil and groundwater cleanup levels that protect human health, ecological receptors, and water quality.

1.1 Building 1213

Building 1213 is three story stucco house located in Mini-CAP Area 1 in the western upland portion of the Presidio on Ralston Avenue west of Battery-Howe Wagner (Figure A-12-1). The site elevation is approximately 222 feet above the PLLW datum.

Building 1213 reportedly contained an outdoor 500-gallon fuel oil UST that was removed in 1993. However, the presence of TPHg and benzene above the respective SCRs of 1,030 and 0.6 mg/kg in soil confirmation samples indicated that the UST was used for a gasoline generator. TPHg and benzene were detected in soil confirmation samples at concentrations of 1,500 and 2.8 mg/kg, respectively (GRC, 2004).

In 1999, MW drilled four soil borings 1213SB1 through 1213SB4. Groundwater was not sampled during this investigation. Soil borings, sample locations and chemical data tables, are documented in GRC's 2004 Mini-CAP Report. Soil samples from the borings were analyzed for TPHg, TPHd, BTEX, and VOCs. Of the compounds analyzed, TPHg, benzene, ethylbenzene, and total xylenes were detected at concentrations exceeding their applicable cleanup levels.

GRC installed one monitoring well (1213GW101) at Building 1213 as part of the Mini-CAP, which is currently included in the Presidio-wide Groundwater Monitoring Program.

1.2 Building 1221

Building 1221 is located in Mini-CAP Area 1 in the western upland portion of the Presidio within Fort Winfield Scott (Figure A-12-1) and lies at approximately 224 feet above the PLLW datum.

Four USTs (1221.1, 1221.2, 1221.3, and 1221.4) at Building 1221 were formerly associated with a gasoline service station. The three 6,000-gallon and one 10,000-gallon gasoline USTs were removed between June and September 1993. All the tanks reportedly contained gasoline; however, during removal activities the residual liquid in UST 1221.1 was a mixture of water and waste oil, indicating that the USTs may have been used for automotive waste oil storage.

A total of nine soil confirmation samples were collected from beneath the USTs and were analyzed for TPHg, TPHd, BTEX, and SVOCs. None of these compounds exceeded SCRs. It is unknown if soil was removed from the excavations (GRC, 2004).

In 1999, MW drilled eight exploratory soil and one grab groundwater boring adjacent to and within the former UST excavations. Soil samples were collected and analyzed for TPHg, TPHd, oil and grease, BTEX, and PAHs. PAHs were the only compounds detected above the SCRs. Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and benzo(k)fluoranthene were all detected at concentrations exceeding their applicable SCRs in soil. Two grab groundwater samples were collected from soil boring 1221HP2 at depths of 10 and 20 feet bgs. Groundwater samples were analyzed for TPHg, oil and grease, BTEX, and VOCs. Compounds detected included benzene, 1,2-DCE, PCE, TCE, and bis(2-ethylhexyl)pthalate. Bis(2-ethylhexyl)pthalate was the only compound detected that exceeded its applicable groundwater cleanup level of 4 µg/L. Detailed results are presented in the Mini-CAP Report (GRC, 2004).

Building 1221's Mini-CAP groundwater monitoring program includes four monitoring wells; 1221GW101, 1221GW102, 1221GW103, and 1221GW104 (Figure A-12-1).

1.3 Building 1260

Building 1260 is located in Mini-CAP Area 1 in the upland area of the Presidio in Fort Winfield Scott within the Special Status Ecological Cleanup Level area (Figure A-12-1). Schofield Avenue is west of the site and Veterans Boulevard (Highway 1) is to the east. The site elevation is approximately 142 feet PLLW (GRC, 2004).

Building 1260 formerly had a 10,000 gallon fuel oil UST that was used in conjunction with a fuel oil pump station. Both Building 1260 and the UST were removed from the site in 1993 along with approximately 150 cubic yards of contaminated soil (GRC, 2004).

There are three applicable soil SCRs for Building 1260: recreational human health SCRs, protection of groundwater quality SCRs (>5 feet above the highest groundwater), and Protection of Ecological Receptors SCRs (Table 7-5) (RWQCB, 2003).

Soil samples collected, as part of a subsequent subsurface investigation at the Building 1260 site, were analyzed for TPHd and BTEX compounds. TPHd was detected above the human health SCR of 1,380 mg/kg in two locations at concentrations of 2,300 and 3,100 mg/kg. TPHd was also detected above the ecological receptors SCR of 700 mg/kg at one location at a concentration

of 7,100 mg/kg. No other detected compounds were found to exceed applicable SCRs during this investigation.

The groundwater monitoring program at Building 1260 includes monitoring wells 1260GW101, 1260GW102, and 1260GW103 (Figure A-12-1).

1.4 Building 514

Building 514 is located in Mini-CAP Area 2 in the eastern upland portion of the Presidio at the southwest corner of Simonds Loop and Rawles Street (Figure A-12-3). Building 514 is approximately 200 feet above the PLLW datum.

In 1993, a 1,000 gallon fuel oil UST was removed from the site. Following the tank removal, approximately 30 cubic yards of soil were removed and sidewall confirmation samples were collected. Unknown TPH compounds were detected in one soil confirmation sample at a concentration of 3,800 mg/kg. No TPHd, BTEX and SVOCs were detected above laboratory reporting limits. During tank removal activities, no confirmation samples were collected from beneath the former UST; therefore, MW recommended a soil boring, grab groundwater boring and monitoring well be advanced to further characterize soil and groundwater at the site, but only soil borings were completed during this investigation (GRC, 2004).

In 1994, MW drilled three soil borings 514ASB1 through 514ASB3 to approximately 15 feet bgs. Soil samples were analyzed for TPHd, BTEX, and SVOCs. TPHd, BTEX and SVOCs were not detected above laboratory reporting limits in any of the soil borings.

The groundwater monitoring program for Building 514 includes one monitoring well, 514AGW101 (Figure A-12-3).

1.5 FDS Section MT-14 – Infantry Terrace/Sibert Loop

The Infantry Terrace/Sibert Loop FDS pipeline (Section MT-14) is located in Mini-CAP Area 2 and served residences on both sides of Sibert Loop, entering the area near Building 334, across Sibert Loop and running northeast through the Infantry Terrace area. The residences were served fuel oil through via lateral piping extending from a primary pipeline. IT removed or abandoned in place approximately 1,410 feet of FDS and lateral piping between October 1996 and February 1997. Of the 1,410 feet of piping approximately 699 feet were removed. Due to existing buildings and other features that prevented removal, approximately 711 feet of piping were abandoned in place (GRC, 2004).

During the pipeline removal, over excavation occurred between Buildings 333 and 334 (59 cubic yards) and also between Buildings 340 and 341 (1,667 cubic yards). The excavations were backfilled with soil treated in the Low Temperature Thermal Desorption (LTTD) unit.

Several confirmation samples collected during the removal action were found to exceed applicable SCRs for either TPH or PAHs. As a result, additional subsurface investigation and monitoring well installation was recommended (GRC, 2004).

The groundwater monitoring program for FDS MT-14 Area consists of two monitoring wells FM14EX07GW101 and FM14EX07GW102 (Figure A-12-3).

2.0 SITE DESCRIPTION AND GEOLOGY

Mini-CAP Areas currently included in the Presidio-wide Groundwater Monitoring Program are described below.

2.1 Building 1213

Building 1213 is situated in the Marina Groundwater Basin (Figure 1). Depth to groundwater was measured at approximately 29 feet bgs during the Fourth Quarter 2005 in monitoring well 1213GW101. Groundwater flow in this area follows the general topographic trend towards the east and northeast (Figure A-12-1).

Geology in the area is characterized by unconsolidated deposits consisting of Quaternary slope debris and ravine fill. The unconsolidated sediments are underlain by Franciscan complex bedrock. Based on cross sections by completed by MW in 1999, surface soils (less than 5 feet below grade) are characterized by clayey gravels and clayey sands. Serpentine bedrock is encountered beneath these materials at depths of approximately 23.5 feet (GRC, 2004).

2.2 Building 1221

Building 1221 is in the Marina Groundwater Basin (Figure 1). In the Fourth Quarter 2005, depth to groundwater ranged from 8.89 to 14.79 within monitoring wells 1221GW102 and 1221GW101, respectively. Groundwater flow follows the general topographic trend towards the east and northeast (Figure A-12-1).

Geology at the site is a combination of Quaternary slope debris, ravine fill and Franciscan complex bedrock. Serpentine bedrock from the Franciscan Formation is overlain by unconsolidated dune sand, clays and silty clay deposits (GRC, 2004).

2.3 Building 1260

Building 1260 is located in the West Valley Groundwater Area within the Marina Groundwater Basin (Figure 1). Depth to groundwater in the Fourth Quarter 2005 ranged between 17.35 and 29.49 feet bgs. Groundwater flow follows the general topographic trend towards the east (Figure A-12-1).

Geology at the Site consists of Franciscan Formation bedrock overlain by unconsolidated deposits of dune sands and clays. In borings completed by MW, clay was observed up to 14 feet bgs and was underlain by serpentine bedrock (GRC, 2004).

2.4 Building 514

Building 514 is located within an uplands area of the Marina Groundwater Basin (Figure 1). In the Fourth Quarter 2005, the depth to groundwater was measured at 21.46 feet bgs. Groundwater flow follows the general topographic trend towards the west and northwest (Figure A-12-3).

Geology at the site consists of the Franciscan complex bedrock to depths of approximately 16 feet bgs overlain by unconsolidated clays and silts (GRC, 2004).

2.5 FDS Section MT-14

FDS Section MT-14 is located in the Marina Groundwater Basin (Figure 1). In the Fourth Quarter 2005, the depth to groundwater was measured at approximately 26 to 28 feet bgs. Groundwater flow follows the general topographic trend towards the east (Figure A-12-3).

Geology at the site consists of the Franciscan complex bedrock, consisting primarily of sandstone, overlain by undifferentiated slope debris. The surface deposits overlie the bedrock at depths ranging from 1.5 to 17 feet bgs (GRC, 2004).

3.0 GROUNDWATER MONITORING

The Mini-CAP Areas have 11 associated monitoring wells (Figures A-12-1 and A-12-3). Groundwater elevations were collected at all 11 wells in the First Quarter 2007 and at three wells (FM14EX07GW101, FM14EX07GW102, and 1213GW101) during the Second Quarter 2007. All of the Mini-CAP monitoring wells were sampled in accordance with Tables 1A and 1B during the First and Second Quarters 2007, respectively.

Water level meters were calibrated on 26 February and 4 June 2007 for the First and Second Quarters 2007, respectively. The calibration logs can be found in Appendix B. Groundwater elevation field forms can be found in Appendix C.

3.1 Groundwater-Level Measurements and Interpretation

Groundwater elevation measurements were manually collected on 26 February and 4 June 2007 at all Mini-CAP monitoring wells proposed for measurement during the First and Second Quarters 2007 and are summarized in Table A-12-4. Mini-CAP wells are located in two separate areas at the Presidio, and groundwater elevation maps are presented for Mini-CAP Area 1 (Figures A-12-1 and A-12-2) and Mini-Cap Area 2 (Figures A-12-3 and A-12-4). The

groundwater elevation data for study areas adjacent to Mini-CAP Areas 1 and 2 can be found in Tables A-4-3, A-7-5 and A-6-5, respectively.

In Mini-CAP Area 1, groundwater elevations during the First Quarter 2007 ranged from 116.69 to 216.04 feet above PLLW in monitoring wells 1260GW102 and 1221GW102, respectively (Figure A-12-1). Mini-CAP Area 2 groundwater elevations during the First Quarter 2007 ranged from 147.35 to 179.87 feet above PLLW in monitoring wells FM14EX07GW102 and 514AGW101, respectively (Figure A-12-3).

During the Second Quarter 2007, only the Mini-CAP Area 1 well 1213GW101 groundwater level was measured. The elevation at this location was 193.83 (Figure A-12-2). Mini-CAP Area 2 groundwater elevations during the Second Quarter 2007 ranged from 146.87 to 154.57 feet above PLLW in monitoring wells FM14EX07GW102 and FM14EX07GW101, respectively (Figure A-12-4). The groundwater level was not measured at Building 514 well 514AGW101 during the Second Quarter 2007.

Groundwater gradients were calculated for both the northern and southern portions of mini-CAP Area 1 in order to better understand groundwater flow directions. Data from 1213GW101 and Battery Howe Wagner monitoring wells were used for the northern portion and data from Buildings 1221 and 1260 monitoring wells were used for the southern portion of Mini-CAP Area 1. Mini-CAP Area 1 groundwater flow directions were northeasterly in the northern portion of the area and easterly in the southern portion of the area, during the First and Second Quarters 2007 (Figures A-12-1 and A-12-2). During the First Quarter 2007, the groundwater gradient in the northern portion of Mini-CAP Area 1 was approximately 0.07 feet per foot. The groundwater gradient in the southern portion of Mini-CAP Area 1 was approximately 0.12 feet per foot.

During the Second Quarter 2006, the groundwater gradient in the northern portion of Mini-CAP Area 1 was approximately 0.06 feet per foot. The groundwater gradient for the southern portion of Area 1 was not calculated as no groundwater elevations were measured there during the Second Quarter 2007.

Groundwater gradient for the First and Second Quarters 2007 in Mini-CAP Area 2 were not calculated for the eastern portions of the area, as no elevation data was collected from monitoring well TH-4. During previous quarters, TH-4 has served as a data point which divides the eastern and western gradients of the area. The groundwater gradient was calculated for the western portion of the site using elevation data from FM14EX07GW101 and Landfill E monitoring wells.

Mini-CAP Area 2 groundwater flow directions for both the First and Second Quarters 2007 was from the higher elevations towards Tennessee Hollow and easterly from FDSMT-14 and westerly from Building 514. The groundwater gradient in the western portion of Mini-CAP Area 2 was calculated to be 0.10 feet per foot during the First Quarter 2007. The groundwater gradients for the First Quarter 2007 for the eastern portion of the Mini-CAP Area 2 was

estimated to be 0.07 feet per foot during the First Quarter 2007. Groundwater gradients were not calculated for the site during the Second Quarter 2007 due to a lack of sufficient data.

3.2 Monitoring Well Purging and Sampling

In the First Quarter 2007, five Mini-CAP monitoring wells were sampled on 27 February and 7 March 2007. During the Second Quarter 2007, three Mini-CAP monitoring wells were sampled on 6 June 2007.

All Mini-CAP wells were sampled using methods shown in Tables 1A and 1B and in accordance with procedures described in the FSP (Treadwell & Rollo, 2001a). In addition to the primary samples collected during the First Quarter 2007, a duplicate sample (DUP0307073B) was collected from 1221GW104. During the Second Quarter 2007, duplicate (DUP0606071A) and QC duplicate (FM14EX07GW102CL) samples were collected from FM14EX07GW102.

Purge equipment, purging volumes, purge water parameters, and sampling equipment for each monitoring well are described in the purge records at the conclusion of this subsection. Purge water was stored, for future disposal, in one of two 2,800-gallon aboveground polyethylene storage tanks, which are located at the Central Magazine.

3.3 Groundwater Analytical Program

During the First Quarter 2007, three of the groundwater samples were analyzed for TPHg, TPHd, TPHfo, BTEX, MTBE and PAHs. Two of the groundwater samples were also analyzed for general chemistry parameters and dissolved metals. In addition, the groundwater sample from 1213GW101 was analyzed for VOCs. During the Second Quarter 2007, two of the groundwater samples were analyzed for dissolved oxygen, BTEX, MTBE, PAHs, TPHg, TPHd and TPHfo; one of the groundwater samples was analyzed for general chemistry parameters, dissolved metals and VOCs.

All groundwater samples collected during both the First and Second Quarters 2007 were submitted to the project laboratory for the analyses shown in Tables 1A and 1B of the main text. The appropriate sampling containers, preservatives, and maximum holding times for each analytical method are shown in Table 5. Sample containers used for each well are described in the purge records at the conclusion of this section.

QA/QC samples were collected as part of this program. Section 6.2 of the main report discusses the QA/QC sampling and analysis performed during the First and Second Quarters 2007.

4.0 GROUNDWATER ANALYTICAL RESULTS

Groundwater analytical results are presented in Tables A-12-1 through A-12-3 and are discussed below.

4.1 Dissolved Oxygen and General Chemistry Results

Dissolved oxygen results for the First and Second Quarters 2007 are presented in Table A-12-2.

During the First Quarter 2007, the concentrations of dissolved oxygen within the Mini-CAP Area monitoring wells ranged from 0.15 mg/L (FM14EX07GW101) to 3.20 mg/L (1221GW104). The dissolved oxygen concentration measured in 1221GW104 was significantly higher than the previous high concentration measured. During the Second Quarter 2007, dissolved oxygen concentrations were similar to historical concentrations and ranged from 0.13 mg/L (FM14EX07GW101) to 1.41 mg/L (1213GW101). A new high dissolved oxygen concentration of 1.04 mg/L was measured in FM14EX07GW102 in both the First and Second Quarters 2007.

General chemistry results are presented in Table A-12-1. General chemistry results for the First and Second Quarters 2007 within the Mini-CAP Areas are generally within historical ranges or slightly higher or lower than historical ranges.

The table below summarizes new high and low general chemistry analytical results when compared to previous sampling events, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the number of sampling events, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2007		Units
			Minimum	Maximum	Minimum	Maximum	
General Chemistry							
1213GW101	Chloride	9/9	288	600	--	1,100	mg/L
1221GW104	Alkalinity, Total	7/7	430	470	--	490	mg/L
	Bicarbonate	7/7	430	470	--	490	mg/L
	Chloride	7/7	57	61	--	64	mg/L
	Dissolved Oxygen	5/5	0.4	1.7	--	3.2	mg/L
	N as Nitrate	4/7	<0.05	0.06	--	0.44	mg/L
FM14EX07GW101	Dissolved Oxygen	7/7	0.19	0.88	0.13	--	mg/L
FM14EX07GW102	Dissolved Oxygen	7/7	0.41	0.87	--	1.04	mg/L

Significant new high and low general chemistry results are discussed below.

- Chloride was detected at a new high concentration of 1,100 mg/L in the sample collected from 1213GW101 during the Second Quarter 2007. This is almost twice the previous high concentration for this location.

- During the First Quarter 2007, nitrate as nitrogen was detected at a new high concentrations of 0.44 and 0.42 mg/L within the primary and the duplicate samples collected from 1221GW104. These concentrations are significantly higher than the 0.06 mg/L historical high at this location.

The concentration fluctuations of other general chemistry parameters can likely be attributed to natural concentration fluctuations and are not considered to be significant. General chemistry parameters within Mini-CAP Area 1 wells 1213GW101 and 1221GW104 have only been measured since Third Quarter 2006.

4.2 TPH Results

Four and three Mini-CAP monitoring wells were analyzed for TPHg, TPHd, and TPHfo during the First and Second Quarters 2007, respectively. TPH results are included in Table A-12-2. Cleanup levels presented in Table 7-6 of the Cleanup Levels Document have been added to Table A-12-2 for comparison purposes.

No TPHg, TPHd or TPHfo was detected within any of the wells sampled for these analytes during the First or Second Quarters 2007.

4.3 VOC, BTEX and MTBE Results

In the First Quarters 2007, four samples were analyzed for VOCs or BTEX and MTBE. During the Second Quarter 2007, three samples were analyzed for VOCs or BTEX and MTBE. VOC, BTEX and MTBE results are presented in Table A-12-2.

The table below summarizes new high and low VOC, BTEX and MTBE analytical results when compared to previous sampling events, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the number of sampling events, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2007		Units
			Minimum	Maximum	Minimum	Maximum	
Volatile Organic Compounds							
1213GW101	1,2-Dichloroethane	13/13	0.8	9.7	0.6	--	µg/L
514AGW101	MTBE	2/8	<2	3.6	--	7.9	µg/L
FM14EX07GW101	MTBE	3/10	<2	3.3	--	8	µg/L
FM14EX07GW102	MTBE	3/10	<2	3.1	--	5.5	µg/L

During the First Quarter 2007, benzene and 1,2-dichloroethane were detected in monitoring well 1213GW101 at concentrations of 1 and 1.1 µg/L, respectively (Table A-12-2). The detected concentration of 1,2-dichloroethane exceeds its respective cleanup level listed in Table 7-6 of the

Cleanup Levels Document (EKI, 2002; Revised 2006). The detected concentration of benzene equals its cleanup level.

During the Second Quarter 2007, 1,2-dichloroethane, benzene, and ethylbenzene were detected above laboratory reporting limits in monitoring well 1213GW101 at concentrations of 0.6, 1.3, and 0.8 µg/L, respectively. Concentrations of 1,2-dichloroethane and benzene are within historical ranges, however, they both exceed their respective cleanup levels during the Second Quarter 2007.

During the First Quarter 2007, MTBE was detected in samples from monitoring wells 514AGW101, FM14EX07GW101, and FM14EX07GW102, at concentrations of 7.9, 8.0, and 5.5 µg/L, respectively. During the Second Quarter 2007, MTBE was detected in the primary and duplicate samples collected from monitoring well FM14EX07GW101 at a concentration of 2.8 µg/L. The MTBE concentrations detected during the First and Second Quarters 2007 do not exceed the cleanup level for MTBE (13 µg/L).

Cleanup levels presented in Table 7-6 of the Cleanup Levels Document have been added to Table A-12-1 for comparison purposes. Benzene and 1,2-dichloroethane were the only compounds detected above their associated cleanup levels of 1.0 and 0.5 µg/L, respectively, within 1213GW101. BTEX, MTBE, and VOCs will continue to be monitored within these Mini-CAP monitoring wells.

4.4 PAH Results

All First and Second Quarter 2007 samples were analyzed for PAHs (Table A-12-3). Fluoranthene was the only PAH detected during the First and Second Quarters 2007. Fluoranthene was detected during the First Quarter 2007 in 514AGW101 at a concentration of 0.02 µg/L and during the Second Quarter 2007 in FM14EX07GW101 at a concentration of 0.03 µg/L. These concentrations are well below the cleanup level for fluoranthene of 300 µg/L.

4.5 Dissolved Metal Results

During the First Quarter 2007, 1213GW101 and 1221GW104 were analyzed for 23 dissolved metals. During the Second Quarter 2007, 1213GW101 was analyzed for 23 dissolved metals. Dissolved metals results are presented in Table A-12-4. Only chromium exceeded its cleanup level during the First Quarter 2007.

The table below summarizes new high and low dissolved metals analytical results when compared to previous sampling events, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the number of sampling events, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2007		Units
			Minimum	Maximum	Minimum	Maximum	
Metals							
1213GW101	Barium	9/9	10	33	--	56	µg/L
	Magnesium	9/9	64,000	88,000	--	150,000	µg/L
	Sodium	9/9	300,000	341,000	290,000	--	µg/L
1221GW104	Barium	3/7	<10	11	--	33	µg/L
	Manganese	7/7	13	33	--	71	µg/L
	Potassium	7/7	1,600	2,400	1,400	--	µg/L

Significant detections are discussed below.

- Magnesium was detected at 150,000 µg/L, a concentration significantly higher than previous high concentrations within 1213GW101 during the Second Quarter 2007.

- Barium was detected at 56 µg/L a concentration significantly higher than previous high concentration within 1213GW101 during the Second Quarter 2007. Barium was detected at a new high concentration of 33 µg/L within 1221GW104 during the First Quarter 2007.

- Manganese was detected in the duplicate sample from 1221GW104 at a concentration (71 µg/L) more than double the previous high concentration during the First Quarter 2007. The primary sample had a concentration of 70 µg/L detected.

- Chromium was detected during the First Quarter 2007 in the sample from monitoring well 1213GW101 at a concentration of 67 µg/L, which exceeds the cleanup level of 50 µg/L. Chromium was detected below its cleanup level at a concentration of 39 µg/L within this well during the Second Quarter 2007.

Monitoring well 1213GW101 is screened in serpentinite. Based on the *Technical Memorandum Regarding the Hexavalent Chromium in Serpentinite Bedrock and Groundwater in Upland Areas* (Montgomery Watson, 1999o) and the *Memorandum Regarding the Natural Occurrence of Hexavalent Chromium in Surface Water and Groundwater at the Presidio of San Francisco, California* (EKI, 2000c), hexavalent chromium and dissolved chromium in groundwater in upland areas of the Presidio appear to be naturally occurring and derived from serpentinite. There is no known anthropogenic chromium source associated with Building 1213. Thus, dissolved chromium appears to be naturally occurring at Building 1213.

5.0 CONCLUSIONS & RECOMMENDATIONS

Groundwater cleanup levels for benzene, 1,2-dichloroethane and chromium were exceeded in groundwater samples collected from monitoring well 1213GW101 during either the First and/or Second Quarters 2007.

All First and Second Quarter 2007 samples were analyzed for PAHs. Fluoranthene continues to be detected at low levels in 514AGW101 and FM14EX07GW101. However, the detected concentrations were well below the cleanup level for fluoranthene of 300 µg/L.

No TPHg, TPHd or TPHfo was detected within any of the wells sampled during the First and Second Quarters 2007.

Table A-12-1
Results of General Chemistry Analyses
Mini-CAP Areas
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Cleanup Level[2]			--	**250**	--	--	--	--	--
1213GW101	06/06/07	420	380	1,100	< 0.5	2.2 J+	< 0.25	NA	140
	03/02/07	420	420	360	< 0.1	1.7	< 0.05	NA	150
	12/05/06	430	380	600	< 0.1	1.8	< 0.1	NA	130
	08/16/06	420	420	310	< 0.1	0.83	< 0.05	NA	110
DUP0816063A	08/16/06	420	420	310	< 0.1	0.92	< 0.05	NA	110
1213GW101CL	08/16/06	435	435	288	< 50 U	7.1 J-	< 0.02 U	NA	1,050
1221GW104	03/07/07	490	490	64	< 0.1	0.44	< 0.05	NA	69
DUP0307073B	03/07/07	470	470	63	< 0.1	0.42	< 0.05	NA	70
	12/06/06	470	470	58	< 0.1	0.05	< 0.05	NA	66
DUP1206063A	12/06/06	470	470	57	< 0.1	0.06	< 0.05	NA	66
	08/15/06	440	440	61	< 0.1	< 0.05	< 0.05	NA	70
DUP0815063A	08/15/06	440	440	61	< 0.1	< 0.05	< 0.05	NA	68

Notes

1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.

2 - Cleanup levels taken from Table 7-6 in the *Development of Presidio-wide Cleanup Levels for Soil, Sediment, Groundwater, and Surface Water* (EKI, 2002; Table 7-6 Revised May 2006).

mg/L - milligrams per liter

NA - not analyzed

NM - not measured

"--" dissolved oxygen measurements were not taken for duplicate and quality control samples.

CL suffix denotes a quality control duplicate sample was sent to the control laboratory.

Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.

Table 11 in the main report identifies current and historical data qualifiers.

Table A-12-2
Results of TPH, VOCs, and Dissolved Oxygen Analyses
Mini-CAP Areas
Presidio of San Francisco, California

Well Name	Sample Date	Dissolved Oxygen	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})	1,2-Dichloro-ethane	Acetone	Benzene	Ethylbenzene	Toluene	Total Xylenes	MTBE	All Other VOCs
	Analytical Method[1]	field	SW8015M	SW8015M	SW8015M	SW8260M	SW8260M	SW8021B / SW8260M	SW8021B / SW8260M	SW8021B / SW8260M	SW8021B / SW8260M	SW8021B / SW8260M	8260M
		(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--
Cleanup Levels [2]		**--**	**770**	**880**	**1,200**	**0.5**	**--**	**1**	**700**	**150**	**1,750**	**13**	**--**
1213GW101	06/06/07	1.41	< 50	< 50	< 300	**0.6**	< 10 UJ	**1.3**	0.8	< 0.5	< 1	< 0.5	ND
	03/02/07	0.84	< 50	< 50 b UJ	< 300 b UJ	**1.1**	< 10	1	< 0.5	< 0.5	< 1	< 0.5	ND
	12/05/06	0.9	< 50	< 50	< 300	**0.8**	< 10	**1.3**	< 0.5	< 0.5	< 1	< 0.5	ND
	08/16/06	0.88	150 LY	< 50	< 300	**6.9**	< 10	**24**	1.9	< 0.5	0.5	< 0.5	ND
DUP0816063A	08/16/06	--	340 LY	< 50	< 300	**9.7**	< 10	**36**	3.2	0.7	0.9	< 0.5	ND
1213GW101CL	08/16/06	--	55	< 50 U	< 300 U	**8.2**	< 10 U	**29**	0.56	< 0.5 U	< 1 U	< 2 U	ND
	05/24/06	0.36	68 LY	< 50	< 300	**6.6**	< 10	**8.5**	< 0.5	< 0.5	< 1	< 0.5	ND
DUP05242006	05/24/06	NM	140 LY	< 50	< 300	**9.6**	< 10	**34**	2.7	0.8	0.9	< 0.5	ND
1213GW101CL	05/24/06	NM	< 50 U	< 500 U	< 1,000 U	**8**	< 10 U	**11**	0.63	< 0.5 U	< 1 U	< 2 U	ND
	03/17/06	0.63	87 LY	61 Y	< 300	**8.9**	< 10	**1.5**	< 0.5	< 0.5	< 1	< 0.5	ND
DUP0317062A	03/17/06	--	61 LY	57 Y	< 300	**5.8**	< 10	0.8	< 0.5	< 0.5	< 1	< 0.5	ND
	11/29/05	1.7	240	< 50	< 300	NA	NA	**12 C**	2.9	< 0.5	2.3 C	< 2	NA
	09/12/05	NA	89	< 50	< 300	4.3	11	**1.7 / 1.5 [3]**	0.61 / 0.9 [3]	< 0.5	< 0.5	< 0.5	ND
1221GW101	03/17/06	0.24	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
	11/29/05	0.2	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
	09/13/05	NA	< 50	NA	NA	< 0.5	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
1221GW102	03/17/06	0.41	230 LY	53 Y	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
	11/29/05	0.2	70	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
	09/13/05	NA	60	NA	NA	< 0.5	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
1221GW103	03/10/06	0.71	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
	11/29/05	0.3	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
	09/13/05	NA	< 50	NA	NA	< 0.5	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
1221GW104	03/07/07	3.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DUP0307073B	03/07/07	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/06/06	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/15/06	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DUP0815063A	08/15/06	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/24/06	NM	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
	03/24/06	0.47	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/10/06	0.61	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
	11/29/05	1.7	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
	09/13/05	NA	< 50	NA	NA	< 0.5	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND

Table A-12-2
Results of TPH, VOCs, and Dissolved Oxygen Analyses
Mini-CAP Areas
Presidio of San Francisco, California

Well Name	Sample Date	Dissolved Oxygen	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})	1,2-Dichloro-ethane	Acetone	Benzene	Ethylbenzene	Toluene	Total Xylenes	MTBE	All Other VOCs
	Analytical Method[1]	field	SW8015M	SW8015M	SW8015M	SW8260M	SW8260M	SW8021B / SW8260M	SW8021B / SW8260M	SW8021B / SW8260M	SW8021B / SW8260M	SW8021B / SW8260M	8260M
		(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--
Cleanup Levels [2]		**--**	**770**	**880**	**1,200**	**0.5**	**--**	**1**	**700**	**150**	**1,750**	**13**	**--**
1260GW101	03/24/06	0.61	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/10/06	0.49	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
	11/29/05	2.4	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
	09/12/05	NA	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA
1260GW102	03/09/06	0.12	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
DUP0309063A	03/09/06	--	< 50	88 Y	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
	09/12/05	NA	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA
1260GW103	03/24/06	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/10/06	0.17	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
	11/29/05	0.6	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
	09/12/05	NA	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA
514AGW101	03/02/07	0.70	< 50	< 50 b UJ	< 300 b UJ	NA	NA	< 0.5	< 0.5	< 0.5	< 1	7.9	NA
	12/06/06	0.76	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
	08/15/06	0.92	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
	05/25/06	0.47	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
	03/17/06	0.13	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	3.6	NA
	11/29/05	0.6	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
	09/12/05	NA	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA
FM14EX07GW101	06/06/07	0.13	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	2.8	NA
	06/06/07	--	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	2.8	NA
	02/27/07	0.15	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	8 C	NA
	12/06/06	0.84	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	3.3 C	NA
	08/15/06	0.88	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
	05/24/06	0.56	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
	03/17/06	0.19	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
	11/30/05	0.2	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
DUP1130053C	11/30/05	--	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
	09/12/05	NA	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA

Table A-12-2
Results of TPH, VOCs, and Dissolved Oxygen Analyses
Mini-CAP Areas
Presidio of San Francisco, California

Well Name	Sample Date	Dissolved Oxygen	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})	1,2-Dichloro-ethane	Acetone	Benzene	Ethylbenzene	Toluene	Total Xylenes	MTBE	All Other VOCs
	Analytical Method[1]	field	SW8015M	SW8015M	SW8015M	SW8260M	SW8260M	SW8021B / SW8260M	SW8021B / SW8260M	SW8021B / SW8260M	SW8021B / SW8260M	SW8021B / SW8260M	8260M
		(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--
Cleanup Levels [2]		**--**	**770**	**880**	**1,200**	**0.5**	**--**	**1**	**700**	**150**	**1,750**	**13**	**--**
FM14EX07GW102	06/06/07	1.04	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
DUP0606071A	06/06/07	--	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
FM14EX07GW102CL	06/06/07	--	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
	02/27/07	1.04	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	5.5	NA
	12/06/06	0.41	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	3.1 C	NA
	08/15/06	0.59	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
	05/24/06	0.58	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/17/06	0.87	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	2.3	NA
	11/29/05	0.8	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
	09/12/05	NA	< 50	< 50	< 300	NA	NA	0.53	< 0.5	< 0.5	< 0.5	< 2	NA

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Cleanup levels taken from Table 7-6 in the *Development of Presidio-wide Cleanup Levels for Soil, Sediment, Groundwater, and Surface Water* (EKI, 2002; Table 7-6 Revised May 2006).
3 - These samples were run by EPA Method 8020 and 8260B, respectively.
-- Cleanup level not established
Bold numbers indicate concentrations that exceed cleanup levels.
mg/L - milligrams per liter
µg/L - micrograms per liter
TPH - Total petroleum hydrocarbons
MTBE - Methyl tert-butyl ether
1,2-DCA - 1,2-Dichloroethane
VOCs - volatile organic compounds

Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.
NA - Not analyzed
NM - Not measured

Table A-12-3
Results of PCBs and PAH Analyses
Mini-CAP Areas
Presidio of San Francisco, California

Well Name	Sample Date	All PCBs	PAHs	
			Fluoranthene	All Other PAHs
	Analytical Method[1]	SW8082	SW8310	SW8270
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		--	300	--
1213GW101	06/06/07	NA	< 0.38	ND
	03/02/07	NA	< 0.38	ND
	12/05/06	NA	< 0.4	ND
	08/16/06	NA	< 0.38	ND
DUP0816063A	08/16/06	NA	< 0.38	ND
1213GW101CL	08/16/06	NA	< 0.2 U	ND
	05/24/06	NA	NA	ND
DUP-05242006	05/24/06	NA	NA	ND
1213GW101CL	05/24/06	NA	NA	ND
	03/17/06	NA	< 0.38	ND
DUP0317062A	03/17/06	NA	< 0.38	ND
1221GW101	03/17/06	ND	< 9.7	ND
	09/13/05	ND	< 9.7	ND
1221GW102	03/17/06	ND	< 0.38	ND
	09/13/05	ND	< 9.9	ND
1221GW103	03/10/06	NA	< 0.38	ND
	09/13/05	ND	< 10	ND
DUP-5091205	09/13/05	ND	< 9.8	ND
1221GW104	05/24/06	NA	NA	NA
	03/24/06	NA	< 0.38	ND
	09/13/05	ND	< 9.9	ND
1260GW101	03/24/06	NA	< 0.38	ND
	09/12/05	NA	< 9.5	ND
1260GW102	03/09/06	NA	< 0.38	ND
DUP0309063A	03/09/06	NA	< 0.39	ND
1260GW102CL	03/09/06	NA	< 0.2 U	ND
	09/12/05	NA	< 9.6	ND
1260GW103	03/24/06	NA	< 0.38	ND
	09/12/05	NA	< 9.9	ND
DUP-6-091205	09/12/05	NA	< 9.5	ND
514AGW101	03/02/07	NA	0.02 J	ND
	12/06/06	NA	0.07 J	ND
	08/15/06	NA	0.03 J	ND
	03/17/06	NA	0.12 J	ND
	09/12/05	NA	< 9.7	ND
DUP-1-091205	09/12/05	NA	< 9.7	ND

Table A-12-3
Results of PCBs and PAH Analyses
Mini-CAP Areas
Presidio of San Francisco, California

Well Name	Sample Date	All PCBs	PAHs	
			Fluoranthene	All Other PAHs
	Analytical Method[1]	SW8082	SW8310	SW8270
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		--	300	--
FM14EX07GW101	06/06/07	NA	0.03 J	ND
	02/27/07	NA	< 0.39	ND
	12/06/06	NA	0.05 J	ND
	08/15/06	NA	< 0.38	ND
	03/17/06	NA	< 0.39	ND
	09/12/05	NA	< 9.7	ND
DUP-4-091205	09/12/05	NA	< 9.5	ND
FM14EX07GW102	06/06/07	NA	< 0.38	ND
DUP0606071A	06/06/07	NA	< 0.38	ND
FM14EX07GW102CL	06/06/07	NA	< 0.2	ND
	02/27/07	NA	< 0.39	ND
	12/06/06	NA	< 0.38	ND
	08/15/06	NA	< 0.38	ND
	03/17/06	NA	0.09 J	ND
	09/12/05	NA	< 9.6	ND

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Cleanup levels taken from Table 7-6 in the *Development of Presidio-wide Cleanup Levels for Soil, Sediment, Groundwater, and Surface Water* (EKI, 2002; Table 7-6 Revised May 2006).
-- Cleanup level not established
Bold numbers indicate concentrations that exceed cleanup levels.
µg/L - micrograms per liter
PCBs - Polychlorinated biphenyls
PAHs - Polycyclic aromatic hydrocarbons
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-12-4
Results of Dissolved Metals Analyses
Mini-CAP Areas
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
	Analytical Method[1]	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**6**	**10**	**1,000**	**4**	**5**	**--**	**50**	**--**	**1,000**	**--**	**15**	**--**	**--**	**100**	**--**	**50**	**50**	**--**	**2**	**--**	**5,000**
1213GW101	06/06/07	< 100 UJ	< 1	< 5	56	< 2	< 1	16,000 J-	39	< 10	< 1	< 100 UJ	< 3	150,000 J-	23	< 20	640 J-	< 5	< 1	320,000	< 1	< 10	< 20
	03/02/07	< 100	< 1	< 5	23	< 2	< 1 UJ	19,000	**67**	< 10	< 1	< 100	< 3	76,000	< 10	< 20	1,100 J	< 5	< 1	290,000	< 1	< 10	< 20 UJ
	12/05/06	< 100	< 1	< 5	33	< 2	< 1	15,000	**75**	< 10	< 1	< 100	< 3	64,000	< 10	< 20	560 J	< 5	< 1	310,000	< 1	< 10	< 20
	08/16/06	< 100	< 1	6	17	< 2	< 1	17,000	22	< 10	1	< 100	< 3	87,000	33	< 20	1,500	< 5	< 1	310,000	< 1	< 10	< 20
DUP0816063A	08/16/06	< 100	< 1	7.2	17	< 2	< 1	17,000	24	< 10	< 1	< 100	< 3	88,000	28	< 20	1,500	< 5	< 1	310,000	< 1	< 10	< 20
1213GW101CL	08/16/06	56 B	< 60 U	< 100 U	14	< 2 U	< 5 U	19,100	22	< 10 U	< 20 U	< 100 U	< 50 U	84,200	40	13 B	2,070 B	< 200 U	< 10 U	331,000	< 2000 U	5 B	10 B
	05/24/06	< 100	< 1	6.3	10	< 2	< 1	19,000	**54**	< 10	< 1	< 100	< 3	72,000	< 10	< 20	2,600	< 5	< 1	340,000	< 1	< 10	< 20
DUP-05242006	05/24/06	< 100	< 1	5.8	11	< 2	< 1	19,000	23	< 10	< 1	< 100	< 3	71,000	29	< 20	2,500	< 5	< 1	300,000	< 1	< 10	21
1213GW101CL	05/24/06	< 100 U	< 2 U	6.1	17	< 1 U	< 1 U	21,100	44	< 1 U	3	< 100 U	< 1 U	80,800	18	4.7	< 5,000 U	2.1	< 1 U	341,000	< 1 U	< 10 U	< 20 U
	03/17/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DUP0317062A	03/17/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1221GW101	03/17/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/13/05	NA	NA	NA	NA	NA	< 5	NA	< 10	NA	NA	NA	< 3	NA	NA	< 20	NA	NA	NA	NA	NA	NA	< 20
1221GW102	03/17/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/13/05	NA	NA	NA	NA	NA	< 5	NA	< 10	NA	NA	NA	< 3	NA	NA	< 20	NA	NA	NA	NA	NA	NA	< 20
1221GW103	03/10/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/13/05	NA	NA	NA	NA	NA	< 5	NA	< 10	NA	NA	NA	< 3	NA	NA	< 20	NA	NA	NA	NA	NA	NA	< 20
DUP-5091205	09/13/05	NA	NA	NA	NA	NA	< 5	NA	< 10	NA	NA	NA	< 3	NA	NA	< 20	NA	NA	NA	NA	NA	NA	< 20
1221GW104	03/07/07	< 100	< 1	< 5	30	< 2	< 1	45,000	< 10	< 10	< 1	< 100	< 3	89,000	70	< 20	1,500 J	< 5	< 1	60,000	< 1	< 10	< 20
DUP0307073B	03/07/07	< 100	< 1	< 5	33	< 2	< 1	45,000	10	< 10	< 1	< 100	< 3	90,000	71	< 20	1,400 J	< 5	< 1	60,000	< 1	< 10	< 20
	12/06/06	< 100	< 1	< 5	< 10	< 2	< 1	47,000	< 10	< 10	< 1	< 100	< 3	89,000	16	< 20	1,800	< 5	< 1	63,000 J	< 1	< 10	< 20
DUP1206063A	12/06/06	< 100	< 1	< 5	< 10	< 2	< 1	44,000	< 10	< 10	< 1	< 100	< 3	85,000	13	< 20	1,700	< 5	< 1	60,000 J	< 1	< 10	< 20
	08/15/06	< 100	< 1	< 5	< 10	< 2	< 1	51,000	< 10	< 10	< 1	< 100	< 3	84,000	33	< 20	1,600	< 5	< 1	62,000	< 1	< 10	< 20
DUP0815063A	08/15/06	< 100	< 1	< 5	< 10	< 2	< 1	49,000	< 10	< 10	< 1	< 100	< 3	81,000	27	< 20	1,700	< 5	< 1	63,000	< 1	< 10	< 20
	05/24/06	< 100	< 1	< 5	11	< 2	< 1	63,000	< 10	< 10	< 1	< 100	< 3	94,000	28	< 20	2,400	< 5	< 1	70,000	< 1	< 10	< 20
	09/13/05	NA	NA	NA	NA	NA	< 5	NA	15	NA	NA	NA	< 3	NA	NA	< 20	NA	NA	NA	NA	NA	NA	< 20

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001.
The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Cleanup levels taken from Table 7-6 in the *Development of Presidio-wide Cleanup Levels for Soil, Sediment, Groundwater, and Surface Water* (EKI, 2002; Table 7-6 Revised May 2006).
-- Cleanup level not established
Bold numbers indicate concentrations that exceed cleanup levels.
µg/L - micrograms per liter
Table 7 in the main report identifies all duplicate and split samples and the well
Table 11 in the main report identifies current and historical data qualifiers.

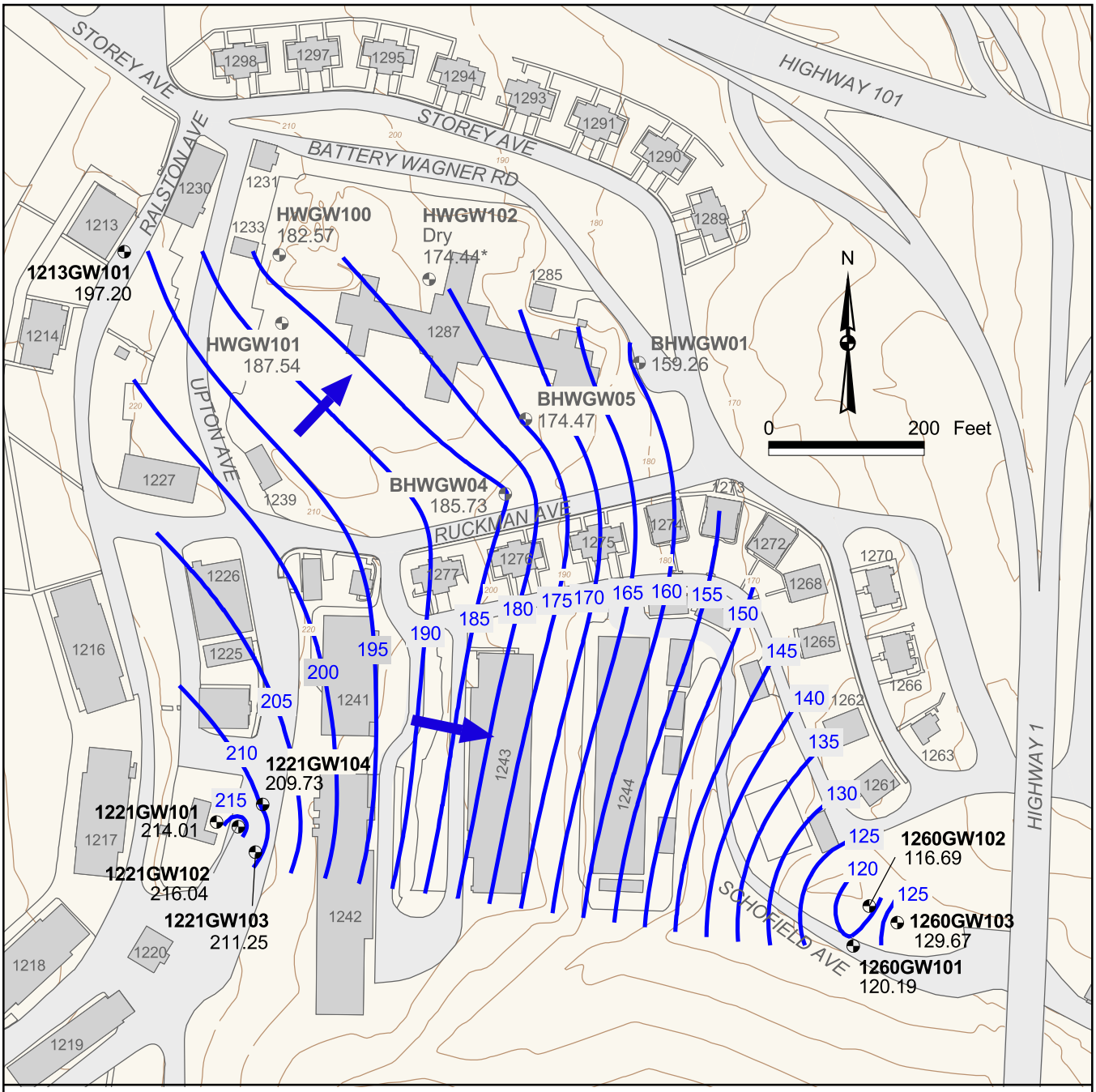
Table A-12-5
Groundwater Elevation Summary
Mini-CAP Areas
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
FM14EX07GW101	06/04/07	28.86	183.43	154.57	MW
	02/26/07	28.40	183.43	155.03	MW
	12/04/06	30.04	183.43	153.39	MW
	08/14/06	27.05	183.43	156.38	MW
	05/22/06	23.21	183.43	160.22	MW
	03/06/06	23.90	183.43	159.53	MW
	11/28/05	27.79	183.43	155.64	MW
FM14EX07GW102	06/04/07	26.42	173.29	146.87	MW
	02/26/07	25.94	173.29	147.35	MW
	12/04/06	27.30	173.29	145.99	MW
	08/14/06	25.45	173.29	147.84	MW
	05/22/06	24.60	173.29	148.69	MW
	03/06/06	24.11	173.29	149.18	MW
	11/28/05	25.86	173.29	147.43	MW
1213GW101	06/04/07	27.52	221.35	193.83	MW
	02/26/07	24.15	221.35	197.20	MW
	12/04/06	29.86	221.35	191.49	MW
	08/14/06	23.75	221.35	197.60	MW
	05/22/06	18.34	221.35	203.01	MW
	03/06/06	22.01	221.35	199.34	MW
	11/28/05	29.27	221.35	192.08	MW
1221GW101	02/26/07	9.58	223.59	214.01	MW
	12/04/06	9.70	223.59	213.89	MW
	08/14/06	8.51	223.59	215.08	MW
	05/22/06	6.92	223.59	216.67	MW
	03/06/06	10.28	223.59	213.31	MW
	11/28/05	14.79	223.59	208.80	MW
1221GW102	02/26/07	7.42	223.46	216.04	MW
	12/04/06	8.46	223.46	215.00	MW
	08/14/06	9.73	223.46	213.73	MW
	05/22/06	7.86	223.46	215.60	MW
	03/06/06	6.80	223.46	216.66	MW
	11/28/05	8.89	223.46	214.57	MW
1221GW103	02/26/07	12.09	223.34	211.25	MW
	12/04/06	13.05	223.34	210.29	MW
	08/14/06	11.44	223.34	211.90	MW
	05/22/06	9.68	223.34	213.66	MW
	03/06/06	10.20	223.34	213.14	MW
	11/28/05	14.21	223.34	209.13	MW

Table A-12-5
Groundwater Elevation Summary
Mini-CAP Areas
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1221GW104	02/26/07	13.66	223.39	209.73	MW
	12/04/06	16.59	223.39	206.80	MW
	08/14/06	15.36	223.39	208.03	MW
	05/22/06	12.47	223.39	210.92	MW
	03/06/06	12.00	223.39	211.39	MW
	11/28/05	16.52	223.39	206.87	MW
1260GW101	02/26/07	25.57	145.76	120.19	MW
	12/04/06	17.50	145.76	128.26	MW
	08/14/06	10.80	145.76	134.96	MW
	05/22/06	6.46	145.76	139.30	MW
	03/06/06	10.24	145.76	135.52	MW
	11/28/05	17.35	145.76	128.41	MW
1260GW102	02/26/07	29.22	145.91	116.69	MW
	12/04/06	26.60	145.91	119.31	MW
	08/16/06	20.80	145.91	125.11	MW
	05/22/06	19.49	145.91	126.42	MW
	03/06/06	21.15	145.91	124.76	MW
	11/28/05	26.47	145.91	119.44	MW
1260GW103	02/26/07	16.22	145.89	129.67	MW
	12/04/06	29.70	145.89	116.19	MW
	08/14/06	25.68	145.89	120.21	MW
	05/22/06	21.64	145.89	124.25	MW
	03/06/06	25.15	145.89	120.74	MW
	11/28/05	29.49	145.89	116.40	MW
514AGW101	02/26/07	21.47	201.34	179.87	MW
	12/04/06	21.40	201.34	179.94	MW
	08/14/06	20.30	201.34	181.04	MW
	05/22/06	20.09	201.34	181.25	MW
	03/06/06	20.23	201.34	181.11	MW
	11/28/05	21.46	201.34	179.88	MW

Notes
1 - All depth to water measurements are an average of three measurements recorded in the field.
MW - Monitoring well
feet PLLW - feet above Presidio lower low water vertical datum



LEGEND

- Approximate Direction of Groundwater Flow
- Groundwater Contour (Contour Interval : 5 ft)
- Topographic Contour (Contour Interval : 10 ft)
- 1287 Building and Number
- **1221GW101** 214.01 Groundwater Monitoring Well February 2007 Groundwater Elevation
- **HWGW101** 187.54 Adjacent Study Area Well February 2007 Groundwater Elevation
- 174.44* Value Indicates Bottom of Casing Elevation in Feet PLLW

Notes:
Groundwater elevation data collected on 26 February 2007.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

MINI-CAP AREA 1 SITE PLAN AND 26 FEBRUARY 2007 GROUNDWATER ELEVATION MAP

Treadwell&Rollo

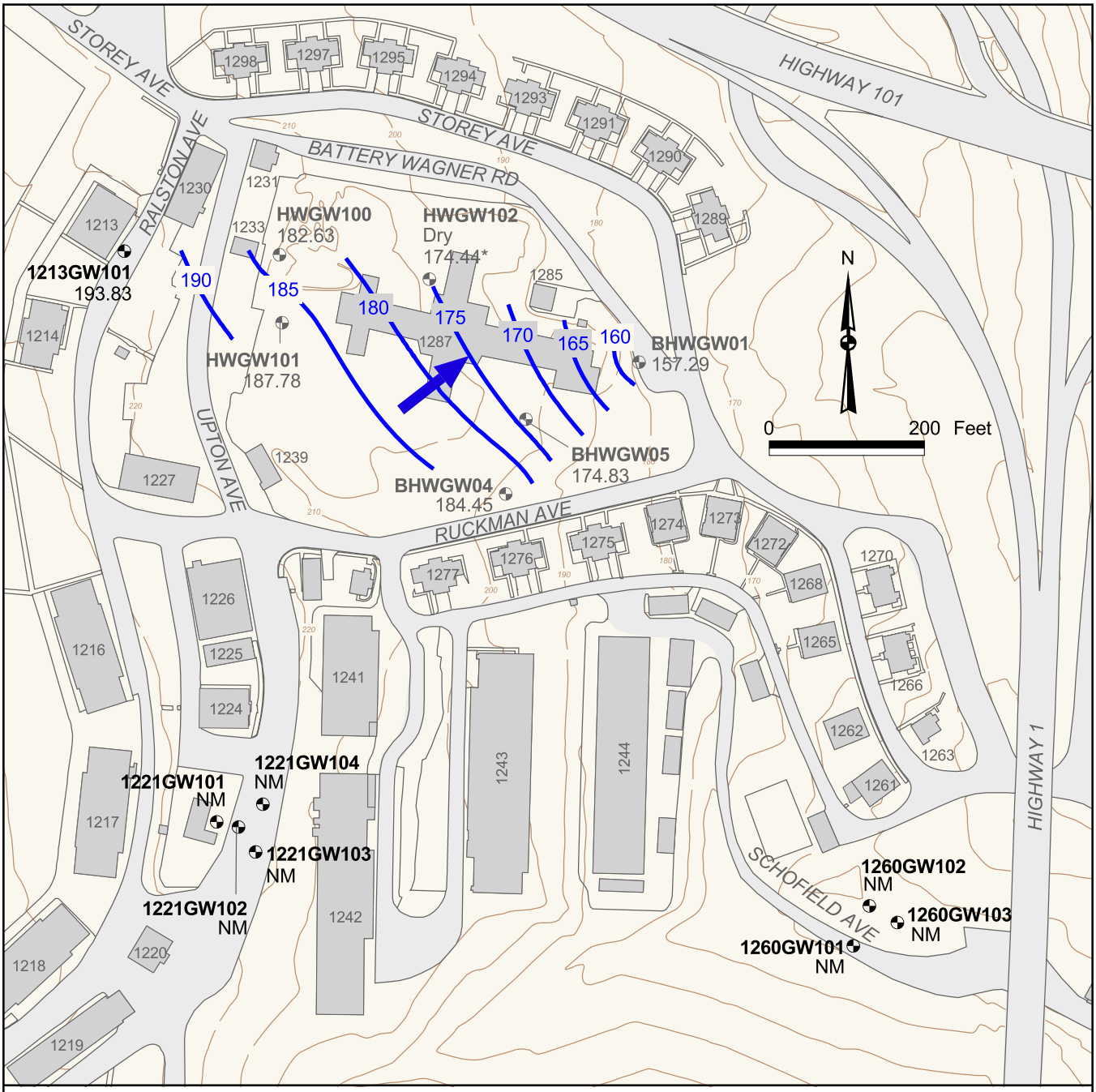
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FIGURE A-12-1

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LEGEND

- Approximate Direction of Groundwater Flow
- Groundwater Contour (Contour Interval : 5 ft)
- Topographic Contour (Contour Interval : 10 ft)
- 1287 — Building and Number
- 1213GW101 193.83 — Groundwater Monitoring Well, June 2007 Groundwater Elevation
- HWGW101 187.78 — Adjacent Study Area Well, June 2007 Groundwater Elevation
- 174.44* — Value Indicates Bottom of Casing Elevation in Feet PLLW
- NM — Not Measured

Notes:
Groundwater elevation data collected on 4 June 2007.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

MINI-CAP AREA 1 SITE PLAN AND 4 JUNE 2007 GROUNDWATER ELEVATION MAP

Treadwell&Rollo

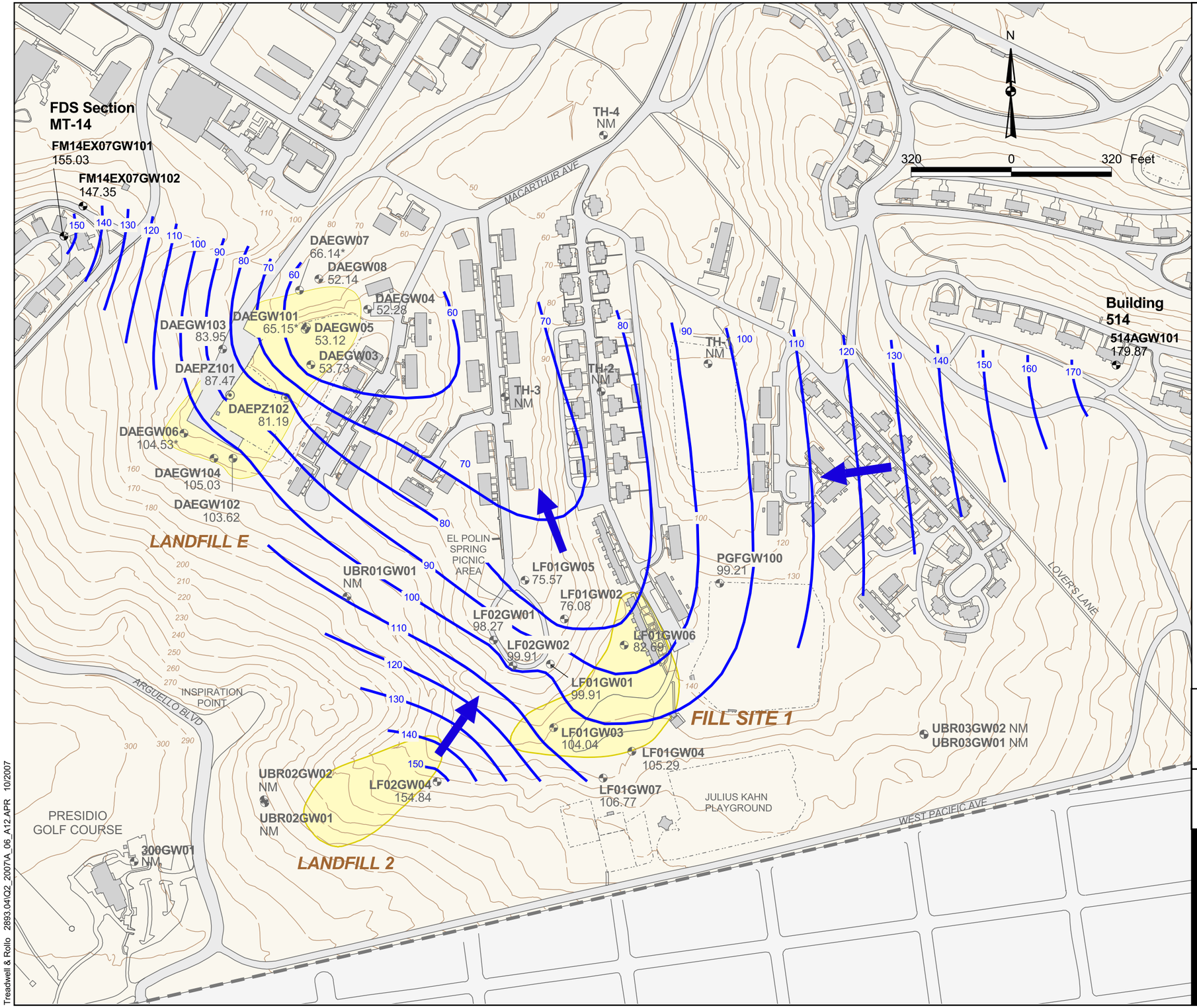
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FIGURE A-12-2

Treadwell & Rollo 2893_04\Q2_2007\A_04_A12.APR 10/2007



LEGEND

- **514AGW101** 179.87 — Groundwater Monitoring Well, February 2007 Groundwater Elevation
- NM — Not Measured
- DAEGW03 — Adjacent Groundwater Monitoring Well
- DAEPZ101 — Adjacent Piezometer
- Approximate Direction of Groundwater Flow
- Groundwater Contour (Contour Interval: 10 ft)
- Presidio Boundary
- Recreation Area
- Topographic Contour (Contour Interval: 10 ft)
- Approximate Lateral Extent of Landfill
- Building

Notes:
Groundwater elevation data collected on 26 February 2007.

300GW01 was approved for removal from the groundwater monitoring program prior to the First Quarter 2006.

Landfill E wells DAEGW06 and DAEGW07 were not contoured, due to semi-confined and perched conditions, respectively. Whereas, well DAEGW101 was not contoured because it is screened in a deeper interval.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

MINI-CAP AREA 2 SITE PLAN AND 26 FEBRUARY 2007 GROUNDWATER ELEVATION MAP

Treadwell&Rollo

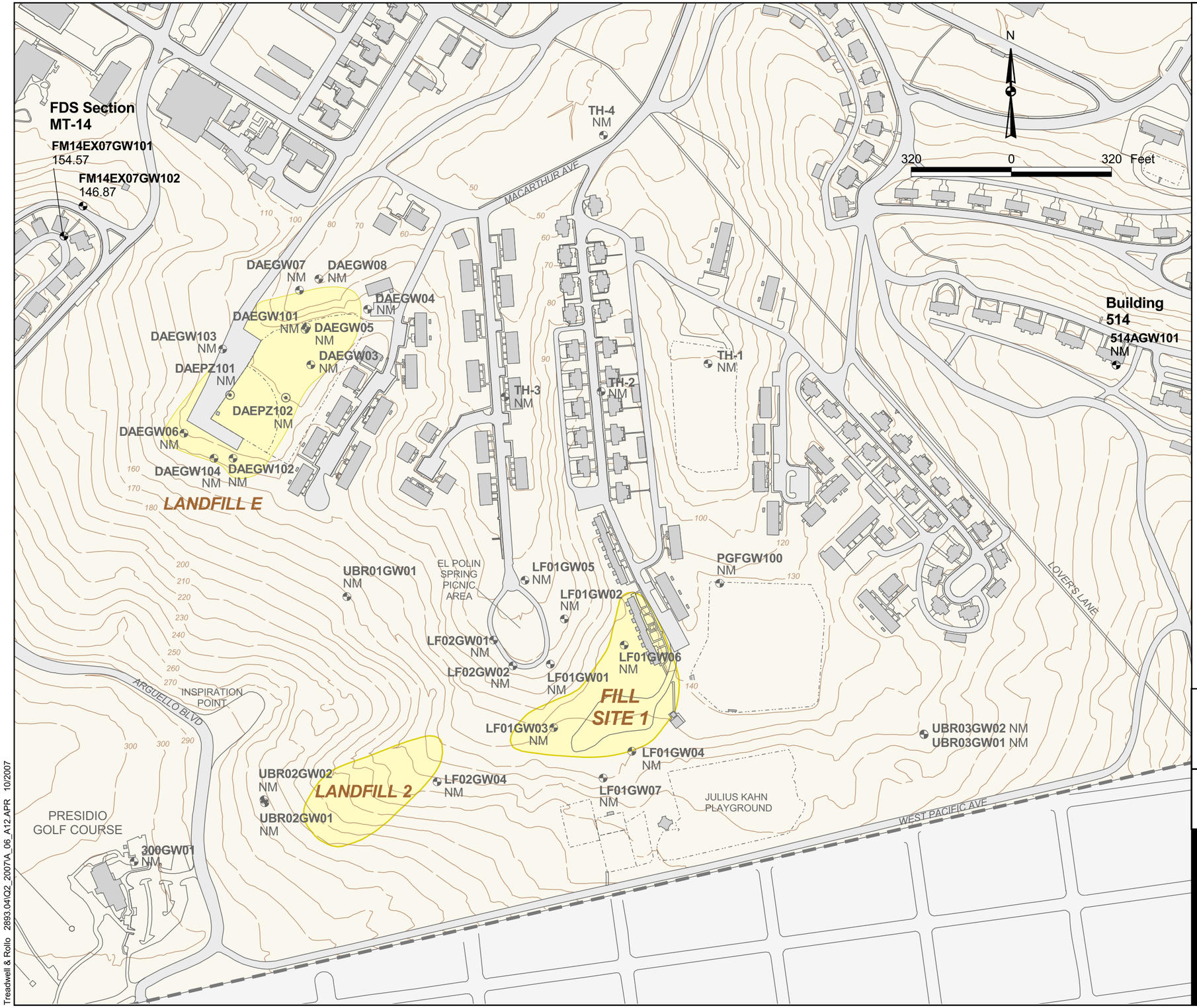
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FIGURE A-12-3

Treadwell & Rollo 2893.04\Q2_2007\A_06_A12.APR 10/2007



LEGEND

FM14EX07GW101 154.57	Groundwater Monitoring Well June 2007 Groundwater Elevation
NM	Not Measured
DAEGW03	Adjacent Groundwater Monitoring Well
DAEPZ101	Adjacent Piezometer
	Presidio Boundary
	Recreation Area
	Topographic Contour (Contour Interval: 10 ft)
	Approximate Lateral Extent of Landfill
	Building

Notes:
Groundwater elevation data collected on 4 June 2007.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW)
(topography) North American Vertical Datum, NAVD88

MINI-CAP AREA 2 SITE PLAN AND 4 JUNE 2007 GROUNDWATER ELEVATION MAP

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FIGURE A-12-4

Treadwell & Rollo 2893.04\Q2_2007\A_06_A12.APR 10/2007

First Quarter 2007

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Minicap | Well No.: FM14EX07GW101

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: R. Cornish | Sampled by: R Cornish | Date: 2/27/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [V] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 45.05

Depth to Water (WL, ft. below TOC): ~~34.29~~

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: ~~Bail~~ Disp

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: 0.5 gpm

4.5 gals ACTUAL PURGE VOLUME

DO YSI 550A

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron L Ultrameter / Hach 2100

Time	/	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
	/				pre 0.22		—		
1456	/	Initial	7.22	14.0		719.8 µS	—	96	clear
1501	/	1.5	7.16	14.5		749.5	—	>1000	cloudy
1504	/	3.0	6.75	14.8		744.0	—	>1000	↓
1508	/	4.5	6.87	14.1		721.5	—	>1000	↓
	/				post 0.15				
	/								
	/								
	/					Post Purge DTW		34.29'	
	/								
	/								
	/								
	/								
	/								
	/								

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other onsite Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 2/27/07 / 1522

Purging Equipment: Pump - Type: Bailer - Type: Disp Other:

Sample Filtered: Yes / (No) Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
FM14EX07GW101	4x1L Amber NP	CAT	2180	
	3x40ml Vom HCl			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Minicap | Well No.: FM14EX07GW102

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P.Cornish | Sampled by: P.Cornish | Date: 2/27/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 45.39

Depth to Water (WL, ft. below TOC): 25.90

Depth to free phase (FP, ft. below TOC):

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp.

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length ___ X Water Volume/ft ___ X No. Vols ___ = ___ gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: poor | Purge Rate: 0.5

4.5 gals ACTUAL PURGE VOLUME

DO: YSI 550A

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron L Ultrameter / Hach 2100

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/			pre 1.42		–	1111	clear
1414 / initial	7.12	14.2	–	680.3 mS	–	2 20 14	
1417 / 1.5	6.84	14.8	–	696.5	–	2 20	
1420 / 3	7.04	15.2	–	719.1	–	22	
1422 / 4.5	6.91	15.1	–	744.1	–	19	
/			post 1.04				
/							
/							
/				Post purge DTW 36.24			
/							
/							
/							
/							
/							
/							

Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 2/27/07 / 1430

Purging Equipment: Pump - Type: | Bailer - Type: Disp. | Other:

Sample Filtered: Yes / (No) | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
FM14EX07GW102	4x1L Amber NP	CalT	2180	
	3x40ml Von HCl			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Mini-Cap | Well No.: 514AGW101

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 3/2/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 37.80

Depth to Water (WL, ft. below TOC): 20.86

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.58
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disposable

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[X] Other

PURGE VOLUME CALCULATION

Water Column Length — X — Water Volume/ft — X — No. Vols — = — gals CALCULATED PURGE VOLUME

Total Purge Time: 10 min.

Recharge Rate: —

Purge Rate: 0.25 gpm

2.25 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI / Hach / Horiba / Ultrameter

Time	/ Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
955	/ 0	8.0	16.2	Pre 0.38	730	—	137	
958	/ 0.75	7.2	16.1	—	689	—	>1000	cloudy
1001	/ 1.50	6.9	16.0	—	687	—	>1000	"
1004	/ 2.25	6.9	16.0	Post 0.70	675	Post 116	>1000	"
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/2/07 / 1015

Purging Equipment: Pump - Type: N/A | Bailer - Type: Disposable | Other:

Sample Filtered: Yes (No) | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
514AGW101	4 NP Amber 1L	CFT	2189	
	6 HCL VOCs			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Mini - Camp | Well No.: 1213GW101

Project Number: 2693 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 3/2/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 39.56

Depth to Water (WL, ft. below TOC): 28.44

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disposable

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[X] Other:

PURGE VOLUME CALCULATION

11.12 (Water Column Length) X ___ (Water Volume/ft) X ___ (No. Vols) = ___ gals CALCULATED PURGE VOLUME

Total Purge Time: 10 min.

Recharge Rate: —

Purge Rate: 0.25 gpm

2.25 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Hach / 451 / Orion / Ultrameter

Time	/	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
835	/	0	6.6	16.2	Prior 0.42	2084	—	61	
838	/	0.75	7.0	16.4	—	2053	—	448	
841	/	1.50	7.2	16.5	—	2030	—	45	
844	/	2.25	7.3	16.5	Post 0.84	2024	Post 87	63	
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	/								
	/								

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/2/07 / 850

Purging Equipment: Pump - Type: N/A | Bailer - Type: Disposable | Other:

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Dissolved Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1213GW101	1x500mL NP Poly	CHT	2188	
	1x500mL HNO3 Poly			
	6x40mL HCL VOAs			
	4x1L NP Ambers			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Mini Cap | Well No.: 1221 GW104

Project Number: 2897 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BP | Sampled by: BP | Date: 3/7/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 29.25

Depth to Water (WL, ft. below TOC): 13.14

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: disp

[X] Normal [ ] Pump \ Type: 2" grundfos

[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft):

[X] Near Bottom Depth (ft): 29'

[ ] Other

PURGE VOLUME CALCULATION

16.11 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 43.5 gals CALCULATED PURGE VOLUME

8 gals ACTUAL PURGE VOLUME

Total Purge Time

Recharge Rate: 0.15 Ft/min | Purge Rate: 3 gpm / .5 gpm

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Horiba U10, YSI 55, Myron Ultra

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND µS (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1136	6.0 gal	Well Dewatered, switched to modified						
1147	6.0	6.9	15.0		1036		319	
1150	7.0	6.8	15.8		1064		>1000	
1153	8.0	6.8	15.8		1084		>1000	
1155	Well Dewatered while purging at .5 gpm. Will return to Sample @ 80%							80% = 16.36
1500	—	6.9	16.1	3.2	1048			DTW = 21.03

Comments: Modified purge due to drawdown | Purge water storage/disposal: ~~[X] Drummed onsite~~ [ ] Other Baker

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/7/07 / 1500

Purging Equipment: Pump - Type: | Bailer - Type: disp | Other:

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1221 GW104	3 x 500 HNO3	CAT	2201	MS/MSD
	3 x 500 NP			1

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.
	DUP030707 3B

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

Second Quarter 2007

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Mi:cap | Well No.: 1213GW101

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: S. Rose | Sampled by: P. Cornish | Date: 6/6/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 39.39

Depth to Water (WL, ft. below TOC): 27.58

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp.

[ ] Normal [ ] Pump \ Type:

[ ] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length ✓ x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 12

Recharge Rate:

Purge Rate: 0.5 gpm

4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron Ultrameter / YSI 556 Hach Turb.

Time	/	Liters or (Gallons)	pH	Temp °F	DO (mg/L)	Sp. COND ~~(mS/cm)~~ µS	ORP (mV)	Turbidity (NTU)	Comments
1035	/	Int.	7.7	16.3	Pre=.05	7016	-	30.2	
1039	/	1.5	7.8	16.5	-	2021	-	410.1	grey, silty
1043	/	3.0	7.9	16.6	-	2020	-	177	
1047	/	4.5	8.0	16.7	-	2150	-	866	
	/				Post=.1.41				
	/								
	/			Post	DTW = 37.26				
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments: Purge water storage/disposal: [ ] Onsite [X] Other Onsite Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6/6/07 / 1055

Purging Equipment: Pump - Type: Bailer - Type: Disp. Other:

Sample Filtered: (Yes) No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1213GW101	6x HCL Voas	C&T	21162	
	3x 1L NP Ambers			
	1 500ml NP poly			
	1 500 ml HNO_3 poly			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Mini Cap | Well No.: FMHEX07GW102

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: P. Cornish | Date: 6/6/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 45.07

Depth to Water (WL, ft. below TOC): 26.39

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp.

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: 0.5 gpm

4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron L / HachTurb. / YSI DO

Time /	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/				pre 0.83				
0850 /	initial	6.2	14.0	—	770 µS	—	101	
0853 /	1.5	6.5	14.5	—	736	—	172	
0856 /	3	6.7	15.0	—	(SA) 730 731	—	330	
0859 /	4.5	6.9	14.8	—	747	—	355	
/								
/			Post	DO = 1.04				
/			Post	DTW = 33.30				
/								
/								
/								
/								
/								
/								
/								

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other Onsite Tank

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: 6/6/07 1090G

Purging Equipment: Pump - Type: Bailer - Type: Disp. Other:

Sample Filtered: Yes / (No) Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
FMHEX07GW102	6x40ml Vol. HCl	CAT	2162	Split sample to CL @ 1716
	3x 1L Amber			↳ same suite
				↳ ID FMHEX07GW102CL

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.
FMHEX07GW102	DUP060607 1A → same suite

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultants

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Minicap | Well No.: FM1&2x07GW101

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: P. Cornish | Date: 6/6/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 48.32

Depth to Water (WL, ft. below TOC): 28.89

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 12 min

Recharge Rate: | Purge Rate: 0.5 gpm

4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron L / Hach Turb / YSI DO

Time / Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
0948 / initial			pre = .05				
0948 0945 1.5	7.00	16.6	—	756 µS		75	
0948 / 3	6.8	16.1	—	764		>1000	
0951 / 4.5	6.8	15.8	—	765		>1000	
0954 / ↑ 4.5	6.8	16.2	—	767		>1000	
/			post = 0.13				
/							
/		Post	DTW = 29.59				
/							
/							
/							
/							
/							
/							
/							

Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6/6/07 1100?

Purging Equipment: Pump - Type: | Bailer - Type: Disp. | Other:

Sample Filtered: Yes / (No) | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
FM1&2x07GW101	18 x 40ml Vox HCl	CET	2162	MS/MSD
	9 x 1L Amber NP			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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NIKE MISSILE FACILITY
APPENDIX SECTION A-13
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2007
Presidio of San Francisco, California

1.0 INTRODUCTION AND BACKGROUND

The Nike Missile Facility is located in the southwest portion of the Presidio (Figure 1) and consists of two terraced areas: the Building 1450/1451 area and the Silo/Magazine area (Dames & Moore, 1997). The Building 1450/1451 area is located on the northern, upland portion of the site. The Silo/Magazine area consists of three abandoned underground missile silos located southeast and downhill from the Building 1450/1451 area. Silo/Magazine #1 is on the middle terrace, and Silo/Magazines #2 and #3 are south of Silo/Magazine #1 (Figure A-13-1).

The Nike Missile Facility opened in 1956 and was taken out of service in 1965. Building 1450 functioned as the missile-launch room, the missile-battery maintenance area, an administration office, and living quarters. Building 1451 was used as an operational support and maintenance facility for the Nike Missile Facility. Hydraulic oil, hydraulic oil storage tanks, hydraulic oil equipment, standing water, and debris (including damaged asbestos-containing material, deteriorated lead-based paint, hydrocarbon-affected soil, sludge, and miscellaneous debris) associated with the three missile silos were removed by the International Technology Corporation (IT) between December 1998 and February 1999. In addition to the removal of these hazardous materials, all mechanisms left in place within the silo/magazines were power-washed. The recovered materials and debris were classified and appropriately disposed (IT, 1999).

Since September 1992, monitoring wells at the Nike Missile Facility site have been analyzed for TPH, PAHs, cyanide, VOCs, and dissolved metals. Analytical results are summarized in Tables A-13-1 through A-13-4.

During the First Quarter 2004, perchlorate and N-nitrosodimethylamine (NDMA) analyses were performed within all Nike Missile Facility monitoring wells as part of the Trust's Emergent Chemical Study, requested by the RWQCB. The results of the Emergent Chemical Study were detailed in the *Draft Technical Report: Emergent Chemical Study, First Quarter 2004* (Treadwell & Rollo, 2004b) and are briefly summarized in Section 3.0 below.

2.0 SITE DESCRIPTION AND GEOLOGY

The Nike Missile Facility is located in the Lobos Creek Groundwater Basin (Figure 1). Groundwater at the site is generally present between 10 and 40 feet bgs. Groundwater flow at the Nike Missile Facility is reported to follow the general topographic trend towards the south-southeast (Montgomery Watson, 1997a).

Soils beneath the Nike Missile Facility consist of engineered fill, dune sand, fine-grained deposits of the Colma Formation, and Franciscan Complex bedrock. Engineered fill was imported and graded for construction in the 1950s. Engineered fill is present at the surface and to depths ranging from 10 to 24.5 feet bgs. Beneath the fill, either dune sand or the Colma Formation is present to depths of 20 feet bgs in the northern portion of the site and 42 feet in the south. The Colma Formation is underlain by serpentinite bedrock (Montgomery Watson, 1997a).

3.0 EMERGENT CHEMICAL STUDY

The Trust, at the request of the RWQCB, identified potential source areas for emergent chemical releases and developed a groundwater monitoring plan to address potential source areas at the Presidio. The sampling program was requested by the RWQCB in a letter to the Trust dated 23 June 2003. The emergent chemical groundwater sampling program was developed to determine if past uses at the Presidio resulted in groundwater contamination associated with emergent chemicals identified as perchlorate, NDMA, 1,4-dioxane, 1,2,3-trichloropropane (TCP), hexavalent chromium, and polybrominated diphenyl ether (PBDE).

The Trust transmitted the results of their source area evaluation in a letter to the RWQCB, entitled *Preliminary Evaluation of Potential Emergent Chemical Use Areas and Locations at the Presidio of San Francisco (*Source Evaluation Report), dated 25 November 2003. The potential emergent chemical source areas were evaluated by the Trust considering the following information: 1) the existing environmental data currently contained within the Trust's database; 2) the potential for an emergent chemical or a material containing an emergent chemical to have been used and released in a significant quantity at the Presidio; and, 3) locations of sensitive groundwater use areas at the Presidio (Trust, 2003).

Based on the Source Evaluation Report, a follow up groundwater monitoring program concerning potential releases of emergent chemicals at the Presidio was implemented during the First Quarter 2004. NDMA was the only emergent chemical detected above laboratory detection limits during the First Quarter 2004. 1,4-dioxane, perchlorate, and PBDE were not detected above laboratory detection limits within any samples analyzed during the First Quarter 2004 (Treadwell & Rollo, 2004b).

NDMA is a decomposition product of Aerozine 50, a component used in the production of rocket fuel. NDMA has contaminated surface and groundwater at missile and other rocket fuel sites.

NDMA has also been formed through other industrial processes, such as the chlorination of drinking water and the treatment of sewage for wastewater recycling. NDMA is considered by health experts to be a carcinogen (RWQCB, 2003).

The following remedial goals and action levels for NDMA have been established.

- The EPA's Preliminary Remedial Goal (PRG) for tap water is 0.0013 µg/L.
- The California Department of Health Services (CDHS) notification level (formerly action level) for NDMA is 0.01 µg/L.

The Source Evaluation Report identifies the Nike Missile Facility and former Army explosive testing areas as potential NDMA source areas. All Nike Missile Facility monitoring wells had samples collected and analyzed for NDMA during the First Quarter 2004. The discussion below relates to the NDMA sampling which took place during the First Quarter 2004 at the Nike Missile Facility.

Groundwater samples collected from monitoring wells NKGW01 through NKGW05 were analyzed for NDMA by EPA Method 1625 during the First Quarter 2004. NDMA has been analyzed on a semi-annual basis since the First Quarter 2004 at the Nike Missile Facility. NDMA results are presented in Table A-13-1.

A *Remedial Action Plan* (RAP) has been prepared for the Nike Missile Facility and a revised groundwater monitoring plan will be implemented at the Nike Missile Facility, in accordance with the RAP (MACTEC 2007a).

4.0 REMEDIAL ACTION PLAN

The *Final Remedial Action Plan, Baker Beach Disturbed Areas 1, and 2A, and Twenty-Six Other Sites* (RAP3) (MACTEC, 2007a), was released in June of 2007.

The RAP3 selected remedial action at the Nike Facility consists of: (a) excavation of impacted soil in the vicinity of NKGW01, NKSB104, and NKSB108 (estimated to be 210 cy); (b) removal of the storm drains and outfalls and excavation and removal of underlying contaminated soil/sediment (estimated to be 810 cy); it is noted because the cleanup level exceedance at NKSB102 overlies the excavation of the storm drain, the volume of soil to removed at NKSB102 is included with the storm drain excavations; (c) excavation of contaminated soil/sediment within the drainage ditches downgradient of the magazines (estimated to be 430 cy); (d) confirmation soil/sediment sampling for soil/sediment COCs to confirm that target effective cleanup levels have been achieved; (e) over-excavation of soil and additional confirmation sampling, as necessary; (f) off-site disposal of soil/sediment at a permitted waste management facility; (g) backfill of excavated areas with clean soil, as necessary; (h) implement a land use notification for residual soil contamination in Magazines 1 and 2 above cleanup levels; (i) implementing a land use controls for seep/groundwater and monitoring the seep quarterly and sampling the seep

at least twice a year if water is present; and (j) continuation of groundwater/seep monitoring on a semiannual basis for a period of up to three years or longer, if required. The land use controls for groundwater/seep water would remain in place until monitoring indicates COCs are below drinking water cleanup levels (MACTEC, 2007a).

RAP3 is scheduled to be implemented at the Nike Missile Facility during the summer of 2008.

5.0 GROUNDWATER MONITORING

The Nike Missile Facility has five associated monitoring wells (Figure A-13-1). Groundwater elevations were collected at all site wells during the First Quarter 2007. Groundwater elevations were not collected during the Second Quarter 2007 as the frequency of water level measurements was reduced to match the sampling frequency at the site.

Groundwater samples were collected at four of the five Nike Missile Facility monitoring wells scheduled for sampling during the First Quarter 2007. Groundwater samples were not collected from NKGW03 due to insufficient water. Groundwater samples were analyzed for VOCs, MTBE, cyanide, dissolved oxygen, NDMA, TPHg, TPHd, TPHfo, TDS, and 23 dissolved metals, in accordance with the proposed sampling schedule (Table 1A). No groundwater samples were scheduled for collection during the Second Quarter 2007 (Table 1B).

In addition to the monitoring wells sampled at the Nike Missile Facility during the First Quarter 2007, the Trust requested that seep NKSW100 be sampled for dissolved and total metals. In order to expedite the results, the sample analyses were put on a 24-hour rush turnaround time and the data was validated separately. The NKSW100 seep sample was analyzed for dissolved and total metals, as discussed below.

A field blank was also collected at the Nike Missile Facility during the First Quarter 2007 to determine if NDMA contamination was a result of field practices. The field blank, FB0302071A, was collected by filling a clean, disposable bailer with laboratory-supplied deionized water at the Site and decanting it into laboratory-supplied bottles. NDMA was not detected above the reporting limit in the field blank sample collected during the First Quarter 2007. Table 8 of the main text presents the analytical results for FB0302071A.

5.1 Groundwater-Level Measurements and Interpretation

Groundwater elevation measurements were collected on 26 February 2007. Groundwater elevations are presented in Table A-13-5. A groundwater elevation map showing groundwater contours and flow directions for the Nike Missile Facility is included as Figure A-13-1. Water level meters were calibrated on 26 February 2007, calibration logs can be found in Appendix B. Groundwater elevation field forms can be found in Appendix C. Groundwater elevation measurements were not collected during the Second Quarter 2007.

Groundwater elevations at the Nike Missile Facility during the First Quarter 2007 ranged from 245.13 to 319.48 feet above PLLW in monitoring wells NKGW01 and NKGW03, respectively (Figure A-13-1). Groundwater flow was in a southerly direction and the groundwater gradient was estimated to be approximately 0.11 feet per foot during the First Quarter 2007. The groundwater elevations, flow and gradient are consistent with historical elevations measured at the site.

5.2 Monitoring Well Purging and Sampling

During the First Quarter 2007, Nike Missile Facility monitoring wells were purged and sampled on 2, 6 and 7 March 2007, in accordance with methods shown in Table 1A and procedures described in the FSP (Treadwell & Rollo, 2001a). In addition to the primary samples collected during the First Quarter 2007, a duplicate sample (DUP0306071C) and a QC duplicate sample (NKGW02CL) were also collected from monitoring well NKGW02. No Nike Missile Facility monitoring wells were proposed for sampling during the Second Quarter 2007.

Purging equipment, purging volumes, purge water parameters, and sampling equipment for each monitoring well are described in the purge records at the conclusion of this section. Purge water was stored for future disposal in one of two 2,800-gallon aboveground polyethylene storage tanks, which are located at the Central Magazine.

5.3 Groundwater Analytical Program

All groundwater samples were submitted to the project laboratory for the analyses shown in Table 1A of the main text. The appropriate sampling containers, preservatives, and maximum holding times for each analytical method are shown in Table 5. Sample containers used for each well are described in the purge records located at the conclusion of this section.

QA/QC samples were collected as part of this program. Section 6.2 of the main text discusses the QA/QC sampling and analysis performed for the First and Second Quarters 2005.

6.0 GROUNDWATER ANALYTICAL RESULTS

Historical groundwater analytical results for the Nike Missile Facility are presented in Tables A-13-1 through A-13-4 and groundwater elevation data are summarized in Table A-13-5.

Groundwater samples collected from Nike Missile Facility monitoring wells during the First Quarter 2007 were analyzed for dissolved oxygen, cyanide, MTBE, VOCs, cyanide, NDMA, TPHg, TPHd, TPHfo, TDS, and 23 dissolved metals. The TPHfo standard currently being used is a TPHmo standard, as defined by the Presidio QAPP, with a carbon range of C_{24} to C_{36}. Section 5.4.3.1 in the main report discusses the data compatibility issues associated with TPH analyses.

The following sections discuss detected analytes.

6.1 Dissolved Oxygen and Cyanide Results

Dissolved oxygen and cyanide concentrations are presented in Table A-13-1. During the First Quarter 2007, dissolved oxygen concentrations within Nike Missile Facility monitoring wells ranged from 0.07 mg/L to 0.95 mg/L at NKGW05 and NKGW02, respectively. New low dissolved oxygen concentrations were presented in NKGW01 at 0.20 µg/L, in NKGW04 at 0.38 µg/L, and in NKGW05 at 0.07 µg/L.

Cyanide was not detected within any samples during the First Quarter 2007. Cyanide has only been detected twice before at NKGW05 during the Second Quarter 1995 and First Quarter 2006, at concentrations of 0.00628 and 0.01 mg/L, respectively. Cyanide does not have a cleanup level listed in Table 9-15 of the RAP.

6.2 NDMA

All Nike Missile Facility groundwater samples collected were analyzed for NDMA during the First Quarter 2007. NDMA results are presented in Table A-13-1. NDMA was detected in all four of the groundwater samples collected from Nike Missile Facility monitoring wells at concentrations ranging from 0.0007 µg/L in the primary sample collected from monitoring well NKGW02 to 0.0023 µg/L in the sample collected from monitoring well NKGW01. NDMA was not found to exceed its RAP-specified cleanup level of 0.01 µg/L in any First Quarter 2007 groundwater samples.

6.3 TPH

All Nike Missile Facility groundwater samples collected were analyzed for TPHg, TPHd, and TPHfo during the First Quarter 2007. TPH was not detected in any of the samples collected from the site during the First Quarter 2007. TPH results are presented in Table A-13-2. TPH was last detected at the Nike Missile Facility at monitoring well NKGW01 in the First Quarter 1999 (TPHd at 65 mg/L).

6.4 VOC and MTBE Results

All Nike Missile Facility groundwater samples collected were analyzed for VOCs and MTBE during the First Quarter 2007. No VOCs or MTBE were detected in any of the samples collected within Nike Missile Facility monitoring well samples during the First Quarter 2007. MTBE has never been detected in groundwater at this site. Benzene and toluene have been detected sporadically and at low concentrations at the Site. VOCs and MTBE analytical results are presented in Table A-13-3.

6.5 Dissolved Metals

All Nike Missile Facility groundwater samples collected were analyzed for dissolved metals during the First Quarter 2007. Dissolved metals results are presented in Table A-13-4.

The table below summarizes new high and low dissolved metals analytical results when compared to previous sampling events, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the number of sampling events, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2007		Units
			Minimum	Maximum	Minimum	Maximum	
Metals							
NKGW02	Magnesium	15/15	21,000	48,000	19,900	--	µg/L
	Silver	1/15	0.2	<10	0.02	--	µg/L
	Sodium	15/15	38,000	54,000	36,000	--	µg/L
	Total Dissolved Solids	10/10	220	330	200	--	mg/L
NKGW04	Total Dissolved Solids	9/9	240	760	--	4,900	mg/L

The majority of the metals concentrations measured during the First Quarter 2007 are within historical ranges or are slightly higher or lower than historical ranges. Significant dissolved metals results are discussed below.

- Cadmium was detected above its RAP-specified cleanup level of 1.1 µg/L within NKGW04 at a concentration of 4.9 µg/L. The detected concentration of cadmium was within historical ranges.

- Nickel was detected above its RAP-specified cleanup level of 52 µg/L within NKGW01 at a concentration of 57 µg/L.

- Total dissolved solids were detected at a new high concentration of 4,900 mg/L within monitoring well NKGW04 which is approximately six times higher than the previous high concentration.

No other dissolved metals results were detected above RAP-specified cleanup levels. The remaining new high and low concentrations from the First Quarter 2007 can be attributed to natural fluctuations and are not considered significant.

In addition to the monitoring well samples, seep NKSW100 was sampled for the first time as part of the Presidio Groundwater Monitoring Program. The sample was analyzed for dissolved and total metals, and results are discussed below.

Dissolved barium, calcium, magnesium, manganese, nickel, potassium, and sodium were all detected in NKSW100 at concentrations within the range of historical groundwater concentrations detected in site monitoring wells. None of the detected concentrations exceed their RAP-specified cleanup levels. No other dissolved metals were detected in NKSW100 during the First Quarter 2007.

Total barium, cadmium, calcium, magnesium, manganese, nickel, potassium, and sodium were detected at similar concentrations as dissolved metals concentrations detected in site monitoring wells. RAP-specified cleanup levels do not apply to total metals.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Groundwater elevations, gradients, and flow directions during the First Quarters 2007 are consistent with historical values and interpretations. NDMA was detected in all four of the groundwater samples collected from Nike Missile Facility monitoring wells sampled during the First Quarter 2007. The NDMA concentrations were all below the RAP-specified cleanup level of 0.01 µg/L.

The *Final Remedial Action Plan, Baker Beach Disturbed Areas 1, and 2A, and Twenty-Six Other Sites* (RAP3) (MACTEC, 2007a), was released in June of 2007. The Nike Missile Facility will be sampled in accordance with RAP3 upon its implementation, which is scheduled to take place in the summer of 2008.

Table A-13-1
Summary of Cyanide and NDMA Analyses and Dissolved Oxygen Measurement Results
Nike Missile Facility
Presidio of San Francisco, California

Well Name	Sample Date	Dissolved Oxygen	Cyanide	NDMA
	Analytical Method[1]	Field	SW9012	E1625
		(mg/L)	(mg/L)	(µg/L)
Cleanup Levels [2]		--	--	**0.01**
NKGW01	03/07/07	0.20	< 0.01	0.0023 U
	08/17/06	0.31	NA	< 0.002
	03/20/06	0.91	< 0.01	0.0045
	09/01/05	1.1	NA	0.005 J
	03/16/05	0.5	< 0.01	0.005
DUP0031605A	03/16/05	--	< 0.01	0.005
	08/13/04	0.50	NA	0.0007
DUP0813042A	08/13/04	--	NA	0.0009
	03/17/04	0.52	< 0.01	0.0048
DUP0317042A	03/17/04	--	< 0.01	0.0016 J
NKGW01CL	03/17/04	--	NA	NA
	03/18/03	0.7	< 0.01	NA
	03/12/02	1	< 0.01	NA
	05/17/01	3.4	< 0.01	NA
	02/24/99	0.55	< 0.01	NA
	08/18/98	0.79	< 0.01	NA
	01/20/98	0.61	< 0.01	NA
	11/14/97	0.69	NA	NA
	08/13/97	0.16	< 0.01	NA
	05/19/97	1.5	< 0.01	NA
	02/17/97	1.62	NA	NA
NKGW02	03/06/07	0.95	< 0.01	0.0007
DUP0306071C	03/06/07	--	< 0.01	0.0008
NKGW02CL	03/06/07	--	< 0.01	< 2
	08/17/06	3.51	NA	< 0.002
	03/20/06	5.95	< 0.01	< 0.002
	09/01/05	1	NA	< 0.002
	03/16/05	0.6	< 0.01	0.005
	08/13/04	0.60	NS	NS
	03/17/04	4.72	< 0.01	< 0.002
	03/18/03	5.7	< 0.01	NA
	03/12/02	5	< 0.01	NA
	05/16/01	5.7	< 0.01	NA
	02/23/99	7.9	< 0.01	NA
	01/21/98	9.32	< 0.01	NA
	05/20/97	1.28	< 0.01	NA
	02/18/97	6.32	NA	NA
	04/05/95	NM	< 0.004	NA
NKGW03	03/10/06	5.39	< 0.01	< 0.002
	03/18/05	2.8	< 0.01	0.0024
	08/13/04	2.80	NS	NS
	03/17/04	3.1	< 0.01	< 0.002
	03/14/03	NM	NS	NS
	03/12/02	2.1	< 0.01	NA
	05/16/01	NM	NS	NS
	02/23/99	NM	< 0.01	NA
	02/23/99	9.14	NA	NA
	04/16/98	10.88 (J25)	NA	NA
	01/20/98	8.02 (J25)	< 0.01	NA
	02/18/97	9.14	NA	NA
	04/06/95	NM	< 0.004	NA

Table A-13-1
Summary of Cyanide and NDMA Analyses and Dissolved Oxygen Measurement Results
Nike Missile Facility
Presidio of San Francisco, California

Well Name	Sample Date	Dissolved Oxygen	Cyanide	NDMA
	Analytical Method[1]	Field	SW9012	E1625
		(mg/L)	(mg/L)	(µg/L)
Cleanup Levels [2]		--	--	**0.01**
NKGW04	03/02/07	0.38	< 0.01	0.0009
	08/16/06	0.59	NA	< 0.002
	03/20/06	3.13	< 0.01	0.003
DUP0320061A	03/20/06	--	< 0.01	0.0019
	09/01/05	0.6	NA	0.0013 J
DUP0901052A	09/01/05	--	NA	0.0012 J
	03/16/05	0.6	< 0.01	0.004
	08/13/04	0.60	NA	0.0009
	03/17/04	0.87	< 0.01	0.0025
	03/18/03	5.8	< 0.01	NA
	03/12/02	3.2	< 0.01	NA
	05/17/01	1.6	< 0.01	NA
	02/22/99	2.95	< 0.01	NA
	01/20/98	0.76	< 0.01	NA
	11/13/97	0.7	< 0.01	NA
	08/13/97	0.7	< 0.01	NA
	05/19/97	0.49	< 0.01	NA
	02/17/97	1.12	NA	NA
	04/05/95	NM	< 0.004	NA
NKGW05	03/07/07	0.07	< 0.01	0.0011 U
	08/17/06	0.45	NA	< 0.002
	03/20/06	0.76	0.01	0.0032
	09/01/05	0.9	NA	0.005 J
	03/16/05	0.8	< 0.01	0.0036
	08/13/04	0.80	NA	0.001
	03/17/04	0.1	< 0.01	0.0009 J
	03/18/03	5.1	< 0.01	NA
	03/12/02	1	< 0.01	NA
	05/17/01	1.4	< 0.01	NA
	02/22/99	0.86	< 0.01	NA
	01/21/98	0.28	< 0.01	NA
	11/14/97	0.4	NA	NA
	05/19/97	0.56	< 0.01	NA
	02/17/97	1.85	NA	NA
	04/05/95	NM	0.00628	NA

Notes
1 - The identified analytical method is for samples performed beginning the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Cleanup levels taken from Table 9-15 of the *Final Remedial Action Plan (RAP 3), Baker Beach Disturbed Areas 1A and 2A and Twenty-Six Other Sites, Presidio of San Francisco, California* (MACTEC, 2007).
µg/L - micrograms per liter
mg/L - milligrams per liter
NA - Not analyzed
NM - Not measured
NS - Not sampled
NDMA - N-nitrosodimethylamine
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-13-2
Results of TPH Analyses
Nike Missile Facility
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**50**	**50**	**50**
NKGW01	03/07/07	< 50	< 50	< 300
	03/20/06	< 50	< 50	< 300
	03/16/05	< 50	< 50	< 300
DUP0031605A	03/16/05	< 50	< 50	< 300
	03/17/04	< 50	< 50	< 300
DUP0317042A	03/17/04	< 50	< 50	< 300
NKGW01CL	03/17/04	< 50	< 48	< 240
	03/18/03	< 50	< 50	< 300
	03/12/02	< 50	< 50	< 300
	05/17/01	< 50	< 50	< 300
	02/24/99	< 50	**65 (J25)**	< 300
	01/20/98	< 50	< 50	< 300
	11/14/97	< 50	< 50	< 300
	05/19/97	< 50	**240 (J25)**	< 300
	02/17/97	< 50	< 50	< 300
	12/11/96	< 50	< 50	< 300
	09/03/96	< 50	**51 (J25)**	< 300
	06/05/96	< 50	< 50	< 300
	03/20/96	< 50	< 50	< 300 (U6)
	11/30/95	< 50	< 50	< 300
	09/21/95	< 50	**68 (J25)**	< 300
	11/10/94	< 50	NA	NA
NKGW02	03/06/07	< 50 UJ	< 50	< 300
DUP0306071C	03/06/07	< 50	< 50	< 300
NKGW02CL	03/06/07	NA	< 50	< 300
	03/20/06	< 50	< 50	< 300
	03/16/05	< 50	< 50	< 300
	03/17/04	< 50	< 50	< 300
	03/18/03	< 50	< 50	< 300
	03/12/02	< 50	< 50	< 300
	05/16/01	<50	<50	<300
	02/23/99	< 50	< 50 (U13)	< 300
	01/21/98	< 50	< 50	< 300
	11/14/97	< 50	< 50	< 300
	02/18/97	< 50 (U15)	< 50	< 300
	06/05/96	< 50	< 50	< 300
	03/19/96	< 50	< 50	< 300 (U6)
	09/22/95	< 50	< 50	< 300
	04/05/95	< 10	NA	NA
NKGW03	03/10/06	< 50	< 50	< 300
	03/18/05	< 50	< 50	< 300
	03/17/04	< 50	< 50	< 300
	03/12/02	< 50	< 50	< 300
	05/16/01	NS	NS	NS
	02/23/99	< 50	< 50 (U13)	< 300
	01/20/98	< 50	< 50	< 300
	02/18/97	< 50 (U15)	< 50	< 300
	04/06/95	11	NA	NA

Table A-13-2
Results of TPH Analyses
Nike Missile Facility
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**50**	**50**	**50**
NKGW04	03/02/07	< 50	< 50 b UJ	< 300 b UJ
	03/20/06	< 50	< 50	< 300
DUP0320061A	03/20/06	< 50	< 50	< 300
	03/16/05	< 50	< 50	< 300
	03/17/04	< 50	< 52	< 310
	03/18/03	< 50	< 50	< 300
	03/12/02	< 50	< 50	< 300
	05/17/01	< 50	< 50	< 300
	02/22/99	< 50	< 50 (U13)	< 300
	01/20/98	< 50	< 50	< 300
	11/13/97	< 50	< 50	< 300
	08/13/97	**360 (J32)**	< 50	< 300
	05/19/97	< 50	**130 (J32)**	< 300
	02/17/97	< 50	< 50	< 300
	12/11/96	< 50	< 50	< 300
	11/30/95	< 50	< 50	< 300
	04/05/95	< 10	NA	NA
NKGW05	03/07/07	< 50	< 50	< 300
	03/20/06	< 50	< 50	< 300
	03/16/05	< 50	< 50	< 300
	03/17/04	< 50	< 50	< 300
	03/18/03	< 50	< 50	< 300
	03/12/02	< 50	< 50	< 300
	05/17/01	<50	< 50	< 300
	02/22/99	< 50	< 50 (U10, U13)	< 300
	01/21/98	< 50	< 50	< 300
	11/14/97	< 50	< 50	< 300
	05/19/97	< 50	**110 (J32)**	< 300
	02/17/97	< 50	< 50	< 300
	12/11/96	< 50	< 50	< 300
	09/03/96	< 50	< 50	< 300
	06/05/96	< 50	< 50	< 300
	03/20/96	< 50	< 50	< 300 (U6)
	11/30/95	< 50	< 50	< 300
	09/22/95	< 50	< 50	< 300
	04/05/95	< 10	NA	NA

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001.
The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Cleanup levels taken from Table 9-15 of the *Final Remedial Action Plan (RAP 3), Baker Beach Disturbed Areas 1A and 2A and Twenty-Six Other Sites, Presidio of San Francisco, California* (MACTEC, 2007).
µg/L - micrograms per liter
NA - Not analyzed
TPH - Total petroleum hydrocarbons

CL suffix denotes a quality control duplicate sample was sent to the control laboratory.

Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-13-3
Results of VOC Analyses
Nike Missile Facility
Presidio of San Francisco, California

Well Name	Sample Date	Benzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		--	--	--	--	--
NKGW01	03/07/07	< 0.5	< 0.5	< 0.5	< 1	ND
	03/20/06	< 0.5	< 0.5	< 0.5	< 1	ND
	03/16/05	< 0.5	< 0.5	< 0.5	< 1	ND
DUP0031605A	03/16/05	< 0.5	< 0.5	< 0.5	< 1	ND
	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0317042A	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	ND
NKGW01CL	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/12/02	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/17/01	< 0.5	< 0.5 UJ	< 0.5	NA	ND
	02/24/99	< 0.5	NA	< 0.5	< 0.5	ND
	08/18/98	NA	NA	NA	NA	NA
	01/20/98	< 0.5	NA	< 0.5	< 0.5	ND
	08/13/97	NA	NA	NA	NA	NA
	05/19/97	< 0.5	NA	12	< 0.5	ND
	02/17/97	< 0.5	NA	< 0.5	< 0.5	ND
	12/11/96	< 0.5	NA	< 0.5	< 0.5	ND
	09/03/96	< 0.5	NA	2.4	< 0.5	ND
	06/05/96	< 0.5	NA	< 0.5	< 0.5	ND
	03/20/96	< 0.5	NA	< 0.5	< 0.5	ND
	11/30/95	< 0.5	NA	< 0.5	< 0.5	ND
	09/21/95	< 0.5	NA	< 0.5	< 0.5	ND
	01/09/95	NA	NA	NA	NA	NA
NKGW02	03/06/07	< 0.5	< 0.5	< 0.5	< 1	ND
DUP0306071C	03/06/07	< 0.5	< 0.5	< 0.5	< 1	ND
NKGW02CL	03/06/07	< 0.5	< 2	< 0.5	< 1	ND
	03/20/06	< 0.5	< 0.5	< 0.5	< 1	ND
	03/16/05	< 0.5	< 0.5	< 0.5	< 1	ND
	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/18/03	0.3 J	< 0.5	< 0.5	< 0.5	ND
	03/12/02	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/16/01	< 0.5	< 0.5 UJ	< 0.5	NA	ND
	02/23/99	NA	NA	NA	NA	NA
	01/21/98	NA	NA	NA	NA	NA
	05/20/97	NA	NA	NA	NA	NA
	02/18/97	< 0.5	NA	< 0.5	< 0.5	ND
	06/05/96	< 0.5	NA	< 0.5	< 0.5	ND
	03/19/96	< 0.5	NA	< 0.5	< 0.5	ND
	09/22/95	< 0.5	NA	< 0.87	< 0.5	ND
	04/05/95	NA	NA	NA	NA	NA
NKGW03	03/10/06	< 0.5	< 0.5	< 0.5	< 1	ND
	03/18/05	< 0.5	< 0.5	< 0.5	< 1	ND
	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/12/02	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/23/99	< 0.5	NA	< 0.5	< 0.5	ND
	01/20/98	< 0.5	NA	< 0.5	< 0.5	ND
	02/18/97	< 0.5	NA	< 0.5	< 0.5	ND
	04/06/95	NA	NA	NA	NA	NA
NKGW04	03/02/07	< 0.5	< 0.5	< 0.5	< 1	ND
	03/20/06	< 0.5	< 0.5	< 0.5	< 1	ND
DUP0320061A	03/20/06	< 0.5	< 0.5	< 0.5	< 1	ND
	03/16/05	< 0.5	< 0.5	< 0.5	< 1	ND
	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	ND

Table A-13-3
Results of VOC Analyses
Nike Missile Facility
Presidio of San Francisco, California

Well Name	Sample Date	Benzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		--	--	--	--	--
NKGW04	03/18/03	0.4 J	< 0.5	0.6	< 0.5	ND
	03/12/02	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/17/01	< 0.5	< 0.5 UJ	< 0.5	NA	ND
	02/22/99	< 0.5	NA	< 0.5	< 0.5	ND
	01/20/98	< 0.5	NA	< 0.5	< 0.5	ND
	11/13/97	< 0.5	NA	< 0.5	< 0.5	ND
	08/13/97	< 0.5	NA	< 0.5	< 0.5	ND
	05/19/97	< 0.5	NA	< 0.5	< 0.5	ND
	02/17/97	< 0.5	NA	< 0.5	< 0.5	ND
	12/11/96	< 0.5	NA	< 0.5	< 0.5	ND
	11/30/95	< 0.5	NA	< 0.5	< 0.5	ND
	04/05/95	NA	NA	NA	NA	NA
NKGW05	03/07/07	< 0.5	< 0.5	< 0.5	< 1	ND
	03/20/06	< 0.5	< 0.5	< 0.5	< 1	ND
	03/16/05	< 0.5	< 0.5	< 0.5	< 1	ND
	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/18/03	0.5	< 0.5	0.8	< 0.5	ND
	03/12/02	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/17/01	< 0.5	< 0.5 UJ	< 0.5	NA	ND
	02/22/99	< 0.5	NA	< 0.5	< 0.5	ND
	01/21/98	< 0.5	NA	< 0.5	< 0.5	ND
	05/19/97	< 0.5	NA	< 0.5	< 0.5	ND
	02/17/97	< 0.5	NA	< 0.5	< 0.5	ND
	12/11/96	< 0.5	NA	< 0.5	< 0.5	ND
	09/03/96	< 0.5	NA	2.3	< 0.5	ND
	06/05/96	< 0.5	NA	0.85	< 0.5	ND
	03/20/96	< 0.5	NA	< 0.5	< 0.5	ND
	11/30/95	< 0.5	NA	< 0.5	NA	ND
	09/22/95	< 0.5	NA	< 0.5	< 0.5	ND
	04/05/95	NA	NA	NA	NA	NA

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.

2 - Cleanup levels taken from Table 9-15 of the *Final Remedial Action Plan (RAP 3), Baker Beach Disturbed Areas 1A and 2A and Twenty Six Other Sites , Presidio of San Francisco, California* (MACTEC, 2007).

µg/L - micrograms per liter
NA - Not analyzed
ND - Not detected
VOCs - Volatile organic compounds
MTBE - Methyl tert-butyl ether
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current historical data qualifiers.

Table A-13-4
Results of Dissolved and Total Metals Analyses
Nike Missile Facility
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW7470/ SW7470A	SW6020	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [2]		--	**6**	**10**	**1,000**	--	**1.1**	--	**50**	--	**9**	--	**2.5**	--	--	**0.012**	**52**	--	**5**	**3.4**	--	**2**	--	**120**	--
NKGW01	03/07/07	< 100	< 1	< 5	120	< 2	< 1	35,000	< 10	< 10	< 1	< 100	< 3	73,000	29	< 0.2	**57**	660 J	< 5	< 1	87,000	< 1	< 10	< 20	600
	03/20/06	< 100	< 1	< 5	120	< 2	< 1	31,000	< 10	< 10	1.1	< 100	< 3	68,000	< 10	< 0.2	39	800	< 5	< 1	72,000	< 1	< 10	< 20	540
	03/16/05	< 100	< 1	9.3	89	< 2	**2**	26,000	< 10	< 10	2.6	< 100	< 3	60,000	13	< 0.2	49	1,700	< 5	< 1	49,000	< 1	< 10	50	440
DUP0031605A	03/16/05	< 100	< 1	7.6	95	< 2	**1.8**	27,000	< 10	< 10	2.2	< 100	< 3	63,000	11	< 0.2	51	1,400	< 5	< 1	52,000	< 1	< 10	35	500
	03/17/04	< 100	< 1	< 5	100	< 2	< 1	34,000	11	< 10	1	< 100	< 3	69,000	< 10	< 0.2	52	1,100	< 5	< 1 UJ	69,000	< 1	< 10	< 20	400
DUP0317042A	03/17/04	< 100	< 1	< 5	110	< 2	< 1	35,000	11	< 10	1.1	< 100	< 3	69,000	< 10	< 0.2	51	1,100	< 5	< 1 UJ	71,000	< 1	< 10	< 20	450
NKGW01CL	03/17/04	< 100	< 5	6.2	93	< 1	1	31,000	11	< 7	< 10	< 500	< 3	66,000	7.2	< 0.2 UJ	**55**	1,900	< 5	< 1	60,000	< 2	< 10	**210 J+**	420 HT-04,J
	03/18/03	< 100 UJ	< 1	< 1	110	< 1	< 1	40,000 J	10 J	< 1	< 1	< 100	< 3	94,000 J	13 J	< 0.2	**55**	1,100	< 5	< 1 UJ	92,000 J	< 1	< 10	< 10	500
	03/12/02	< 100	1.5	2.2	550	< 1	< 1	28,000	6	< 1	1.3	< 100	< 3	63,000	< 10	**0.26**	51	2,600	< 5	< 1 UJ	65,000	< 1	< 10	**170**	480
	05/17/01	< 100	2.5 J	< 1 UJ	130 J	< 1 UJ	< 1 UJ	24,000 J	5.6 J	< 1 UJ	1.2 J	< 100 UJ	< 3 UJ	69,000	18 J	**1.6**	**66 J**	< 500 UJ	< 5 UJ	< 1 UJ	77,000	< 1 UJ	< 10 UJ	22 J	550
	02/24/99	NA	< 5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.26**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/18/98	NA	< 5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/20/98	NA	< 5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.84**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/13/97	NA	< 5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**3.3**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/19/97	< 100	< 10	< 5	130	< 4	< 2	35,000	< 10	< 10	< 10	700	< 3	75,000	90	< 0.2	**70**	< 5,000	**13**	< 2	86,000	< 2	< 10	< 20	NA
	02/17/97	< 100	< 5	< 5	116	< 4	< 2	32,800	< 10	< 10	< 10	< 100	< 3	71,400	14.7	**2.1**	**64.4**	< 5,000	< 5	< 2	96,100	< 2	< 10	25.6	NA
	12/11/96	< 100	< 5	< 5	97.4	< 4	< 2	30,600	< 10	18.6	< 10	113	< 3	66,300	279	< 0.2	**96.5**	< 5,000	< 5	< 2	72,300	< 2	< 10	< 20	NA
	09/03/96	< 100	< 5	< 5	126	< 2	< 0.5	34,900	2.5	< 10	1.1	< 100	< 1	79,100	32.1	**3.1**	**80.3**	< 5,000	< 5	< 0.5	99,400	< 2	< 10	< 20	NA
	06/05/96	< 100	< 5	< 5	120	< 2	< 0.5	34,600	3.4	< 10	< 1	< 100	< 1	75,900	28.2	**1.9**	**71.2**	< 5,000	< 5	< 0.5	95,600	< 2	< 10	< 20	NA
	03/20/96	< 100	< 5	< 5	102	< 2	< 0.5	31,700	4.1	< 10	1.7	< 100	1.7	67,000	< 10	**2.1**	**71.7**	< 5,000	< 5	< 0.5	85,300	< 2	< 10	27.9	NA
	11/30/95	< 100	< 5	< 5	100	< 2	< 0.5	29,900	3.8	< 10	1.2	< 100	< 1	68,300	< 10	< 0.2	**77**	< 5,000	< 5	< 0.5	70,900	< 2	< 10	< 20	NA
	09/21/95	< 100	< 60	< 5	110	< 2	< 5	32,000	< 10	< 10	< 20	100	< 1	70,900	10	**3.1**	**66**	< 5,000	< 5	< 10	77,600	< 2	< 10	39	NA
NKGW02	03/06/07	< 100	< 1	< 5	34	< 2	< 1	11,000	< 10	< 10	< 1	< 100	< 3	20,000	< 10	< 0.2	< 20	< 500	< 5	< 1	36,000	< 1	< 10	< 20	240
DUP0306071C	03/06/07	< 100	< 1	< 5	35	< 2	< 1	11,000	< 10	< 10	2.4	< 100	< 3	20,000	< 10	< 0.2	< 20	< 500	< 5	< 1	38,000	< 1	< 10	20	200
NKGW02CL	03/06/07	< 50	0.06	< 0.5	37.5	< 0.02	0.05	12,200	< 5	0.11	0.5	< 20	< 0.02	19,900	< 5	< 0.2	6.3	< 2,000	< 4	< 0.02	40,800	< 0.02	< 10	< 10	247
	03/20/06	< 100	< 1	< 5	42	< 2	< 1	13,000	< 10	< 10	< 1	< 100	< 3	23,000	< 10	< 0.2	< 20	< 500	< 5	< 1	41,000	< 1	< 10	< 20	330
	03/16/05	< 100	< 1	< 5	37	< 2	< 1	12,000	< 10	< 10	< 1	< 100	< 3	21,000	< 10	< 0.2	< 20	< 500	< 5	< 1	38,000	< 1	< 10	< 20	250
	03/17/04	< 100	< 1	< 5	37	< 2	< 1	14,000	< 10	< 10	< 1	< 100	< 3	22,000	< 10	< 0.2	< 20	< 500	< 5	< 1 UJ	42,000	< 1	< 10	< 20	220
	03/18/03	< 100 UJ	1	< 1	35	< 1	< 1	12,000 J	4.7 J	< 1	< 1	< 100	< 3	30,000 J	< 10 UJ	< 0.2	5.1	< 500	< 5	< 1 UJ	49,000 J	< 1	< 10	< 10	260
	03/12/02	< 100	< 1	< 1	440	< 1	< 1	12,000	4	< 1	< 1	< 100	< 3	25,000	< 10	< 0.2	5.6	< 500	< 5	< 1 UJ	42,000	< 1	< 10	**160**	230
	05/16/01	< 100	1.2 J	< 1 UJ	230 J	< 1 UJ	< 1 UJ	9,700 J	17 J	< 1 UJ	< 1 UJ	< 100 UJ	< 3 UJ	42,000	< 10 UJ	< 0.2	6.5 J	590 J	< 5 UJ	< 1 UJ	44,000	< 1 UJ	< 10 UJ	120 J	320
	02/23/99	NA	< 5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/21/98	NA	< 5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/20/97	< 100	< 5	< 5	< 10	< 4	**2**	17,000	20	< 10	< 10	< 100	< 3	48,000	70	< 0.2	< 20	< 5,000	5	< 2	54,000	< 2	< 10	20	NA
	02/18/97	< 100	< 5	< 5	43	< 4	< 2	15,400	< 10	< 10	< 10	< 100	< 3	27,100	< 10	**0.25**	< 20	< 5,000	< 5	< 2	46,900	< 2	< 10	23.2	NA
	06/05/96	< 100	< 5	< 5	15.8	< 2	< 0.5	16,200	11.3	< 10	< 1	< 100	< 1	35,800	14.1	< 0.2	6	< 5,000	< 5	< 0.5	47,700	< 2	< 10	< 20	NA
	03/19/96	< 100	< 5	< 5	38.7	< 2	< 0.5	14,100	5.9	< 10	1.9	< 100	< 1	24,300	< 10	< 0.2	8.6	< 5,000	< 5	< 0.5	41,900	< 2	< 10	< 20	NA
	09/22/95	< 100	< 60	< 5	< 10	< 2	< 5	22,100	< 10	< 10	< 20	< 100	< 1	46,300	96	< 0.2	< 40	< 5,000	< 5	< 10	43,300	< 2	< 10	< 20	NA
NKGW03	03/10/06	< 100	< 1	< 5	27	< 2	< 1	6,400	< 10	< 10	< 1	< 100	< 3	9,300	< 10	< 0.2	< 20	1,000	< 5	< 1	12,000	< 1	< 10	< 20	280
	03/18/05	< 100	< 1	< 5	30	< 2	< 1	9,200	< 10	< 10	< 1	< 100	< 3	14,000	< 10	< 0.2	< 20	620	< 5	< 1	19,000	< 1	< 10	< 20	220 J-
	03/17/04	< 100	< 1	< 5	27	< 2	< 1	11,000	< 10	< 10	< 1	< 100	< 3	20,000	< 10	< 0.2	< 20	< 500	< 5	< 1 UJ	30,000	< 1	< 10	< 20	300
	03/12/02	< 100	< 1	< 1	230	< 1	< 1	9,700	1	< 1	< 1	< 100	< 3	14,000	< 10	< 0.2	6.5	< 500	< 5	< 1 UJ	12,000	< 1	< 10	120	170
	02/23/99	< 100	< 5	< 5	< 10	< 2	< 2	5,610	< 10	< 10	< 10	< 100	< 3	10,300	< 10	< 0.2	< 20	< 5,000	< 5	< 2	7,080	< 2	< 10	< 20	NA
	01/20/98	970	< 5	< 5	22.6	< 4	< 2	6,480	< 10	< 10	< 10	1,640	< 3	7,510	38	< 0.2	< 20	< 5,000	< 5	< 2	13,100	< 2	< 10	< 20	NA
	02/18/97	312	< 5	< 5	11.6	< 4	< 2	10,000	< 10	< 10	< 10	362	< 3	16,900	< 10	**0.28**	< 20	< 5,000	< 5	< 2	7,440	< 2	< 10	< 20	NA

Table A-13-4
Results of Dissolved and Total Metals Analyses
Nike Missile Facility
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW7470/ SW7470A	SW6020	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [2]		--	**6**	**10**	**1,000**	--	**1.1**	--	**50**	--	**9**	--	**2.5**	--	--	**0.012**	**52**	--	**5**	**3.4**	--	**2**	--	**120**	--
NKGW04	03/02/07	< 100	< 1	< 5	36	< 2	**4.9**	20,000	< 10	< 10	< 1	< 100	< 3	34,000	59	< 0.2	< 20	780	< 5	< 1	40,000	< 1	< 10	57	4,900 J+
	03/20/06	< 100	< 1	< 5	45	< 2	**18**	31,000	< 10	< 10	1.7	< 100	< 3	22,000	< 10	< 0.2	< 20	1,500	< 5	< 1	23,000	< 1	< 10	**950**	420
DUP0320061A	03/20/06	< 100	< 1	< 5	41	< 2	**16**	29,000	< 10	< 10	2.6	< 100	< 3	21,000	< 10	< 0.2	< 20	1,400	< 5	< 1	23,000	< 1	< 10	**860**	760
	03/16/05	< 100	< 1	< 5	37	< 2	< 1	15,000	< 10	< 10	< 1	< 100	< 3	26,000	< 10	< 0.2	< 20	510	< 5	< 1	33,000	< 1	< 10	< 20	240
	03/17/04	< 100	< 1	< 5	45	< 2	< 1	22,000	< 10	< 10	2.2	< 100	< 3	30,000	< 10	< 0.2	< 20	590	< 5	< 1 UJ	40,000	< 1	< 10	< 20	260
	03/18/03	< 100 UJ	1	< 1	39	< 1	**2.3**	28,000 J	2.9 J	< 1	1.4	< 100	< 3	44,000 J	< 10 UJ	< 0.2	8.1	750	< 5	< 1 UJ	52,000 J	< 1	< 10	58	330
	03/12/02	< 100	2.5	< 1	550	< 1	**1.2**	22,000	3.7	< 1	1.1	< 100	< 3	32,000	< 10	< 0.2	10	980	< 5	< 1 UJ	36,000	< 1	< 10	**220**	290
	05/17/01	< 100	2.2 J	< 1 UJ	95 J	< 1 UJ	< 1 UJ	24,000 J	4.4 J	< 1 UJ	1.7 J	100 J	< 3 UJ	45,000	26 J	< 0.2	13 J	890 J	< 5 UJ	< 1 UJ	48,000	< 1 UJ	< 10 UJ	32 J	360
	02/22/99	NA	< 5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/20/98	< 100	< 5	< 5	66.1	< 4	< 2	32,300	< 10	< 10	< 10	< 100	< 3	47,200	93.2	< 0.2	27.3	< 5,000	< 5	< 2	51,900	< 2	< 10	< 20	NA
	11/13/97	< 100	< 5	< 5	22.1	< 4	< 2	22,300	< 10	< 10	< 10	< 100	< 3	41,500	208	NA	21.8	< 5,000	< 5	< 2	47,700	< 2	< 10	< 20	NA
	08/13/97	< 100	< 5	< 5	29.1	< 4	< 2	23,200	< 10	< 10	< 10	< 100	< 3	41,800	346	< 0.2	27.9	< 5,000	< 5	< 2	47,200	< 2	< 10	< 20	NA
	05/19/97	< 100	< 5	< 5	30	< 4	< 2	23,000	< 10	< 10	< 10	< 100	< 3	39,000	110	< 0.2	20	< 5,000	5	< 2	44,000	< 2	< 10	< 20	NA
	02/17/97	< 100	< 5	< 5	41.7	< 4	< 2	24,400	< 10	< 10	< 10	< 100	< 3	37,000	33.4	< 0.2	20	< 5,000	< 5	< 2	50,600	< 2	< 10	< 20	NA
	12/11/96	< 100	< 5	< 5	28.7	< 4	< 2	26,900	< 10	< 10	< 10	< 100	< 3	45,300	203	< 0.2	< 20	< 5,000	< 5	< 2	51,700	< 2	< 10	< 20	NA
	11/30/95	< 100	5.1	< 5	19	< 2	< 0.5	25,000	4.2	< 10	1.3	< 100	< 1	36,500	130	< 0.2	15	< 5,000	< 5	< 0.5	41,700	< 2	< 10	27	NA
NKGW05	03/07/07	< 100	< 1	< 5	89	< 2	< 1	26,000	< 10	< 10	< 1	< 100	< 3	51,000	90	< 0.2	31	800 J	< 5	< 1	46,000	< 1	< 10	< 20	430
	03/20/06	< 100	< 1	< 5	91	< 2	**1.6**	27,000	< 10	< 10	< 1	< 100	< 3	52,000	140	< 0.2	29	1,800	< 5	< 1	50,000	< 1	< 10	< 20	1,030
	03/16/05	< 100	< 1	< 5	120	< 2	1.1	29,000	< 10	< 10	< 1	150	< 3	44,000	1,400	< 0.2	33	3,300	< 5	< 1	47,000	< 1	< 10	< 20	320
	03/17/04	< 100	< 1	< 5	78	< 2	< 1	29,000	< 10	< 10	1.1	< 100	< 3	45,000	35	< 0.2	20	510	< 5	< 1 UJ	47,000	< 1	< 10	< 20	370
	03/18/03	< 100 UJ	1.8	< 1	83	< 1	< 1	37,000 J	2.4 J	< 1	1.4	< 100	< 3	73,000 J	45 J	< 0.2	22	< 500	< 5	< 1 UJ	59,000 J	< 1	< 10	< 10	430
	03/12/02	< 100	1.9	< 1	620	< 1	< 1	29,000	3.4	< 1	< 1	< 100	< 3	49,000	24	< 0.2	15	830	< 5	< 1 UJ	52,000	< 1	< 10	**220**	400
	05/17/01	< 100	1.4 J	< 1 UJ	100 J	< 1 UJ	< 1 UJ	18,000 J	3.3 J	< 1 UJ	3.6 J	< 100 UJ	< 3 UJ	48,000	33 J	< 0.2	17 J	< 500 UJ	< 5 UJ	< 1 UJ	47,000	< 1 UJ	< 10 UJ	22 J	400
	02/22/99	NA	< 5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/21/98	NA	< 5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/19/97	< 100	< 5	< 5	50	< 4	< 2	19,000	< 10	< 10	< 10	< 100	< 3	38,000	10	< 0.2	< 20	< 5,000	< 5	< 2	40,000	< 2	< 10	< 20	NA
	02/17/97	< 100	< 5	< 5	59.7	< 4	< 2	19,800	< 10	< 10	< 10	< 100	< 3	42,100	34.7	< 0.2	< 20	< 5,000	< 5	< 2	46,200	< 2	< 10	< 20	NA
	12/11/96	< 100	< 5	< 5	48.7	< 4	< 2	18,200	< 10	< 10	< 10	< 100	< 3	36,800	57.3	< 0.2	< 20	< 5,000	< 5	< 2	40,200	< 2	< 10	< 20	NA
	09/03/96	1,510 (J8)	< 5	< 5	62.5	< 2	< 0.5	20,000	23	< 10	2.5	3,750 (J8)	1.2	40,400	150	< 0.2	**54.2**	< 5,000	< 5	< 0.5	43,700	< 2	10.7	< 20	NA
	06/05/96	< 100	< 5	< 5	53.3	< 2	< 0.5	18,600	4.8	< 10	< 1	< 100	< 1	39,100	35.6	< 0.2	17.5	< 5,000	< 5	< 0.5	42,100	< 2	< 10	< 20	NA
	03/20/96	< 100	< 5	< 5	48.7	< 2	< 0.5	19,200	9.9	< 10	2.8	< 100	< 1	38,600	39.3	< 0.2	28.9	< 5,000	< 5	< 0.5	41,100	< 2	< 10	< 20	NA
	11/30/95	< 100	< 5	< 5	46	< 2	< 0.5	18,100	6.8	< 10	1.8	< 100	< 1	37,900	32	< 0.2	16	< 5,000	< 5	< 0.5	38,800	< 2	< 10	< 20	NA
	09/22/95	140	< 60	< 5	42	< 2	< 5	19,400	< 10	< 10	< 20	120	< 1	41,000	39	< 0.2	< 40	< 5,000	< 5	< 10	42,500	< 2	< 10	25	NA
NKSW100	03/07/07	< 100	< 1	< 5	89	< 2	< 1	26,000	< 10	< 10	< 1	< 100	< 3	51,000	90	< 0.2	31	800 J	< 5	< 1	46,000	< 1	< 10	< 20	430
Total Metals [3]																									
NKSW100	03/07/07	< 100	< 1	< 5	91	< 2	1.6	27,000	< 10	< 10	< 1	< 100	< 3	52,000	140	< 0.2	29	1,800	< 5	< 1	50,000	< 1	< 10	< 20	1,030

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
Groundwater samples collected from all site monitoring wells were field filtered and analyzed for dissolved metals.
2 - Cleanup levels taken from Table 9-15 of the *Final Remedial Action Plan (RAP 3), Baker Beach Disturbed Areas 1A and 2A and Twenty Six Other Sites , Presidio of San Francisco, California* (MACTEC, 2007).
3 - The cleanup levels listed for metals, do not apply to total metals.
µg/L - micrograms per liter
mg/L - milligrams per liter
NA - Not analyzed
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-13-5
Groundwater Elevation Summary
Nike Missile Facility
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
NKGW01	02/26/07	33.25	278.38	245.13	MW
	08/14/06	29.11	278.38	249.27	MW
	05/22/06	26.21	278.38	252.17	MW
	03/06/06	26.80	278.38	251.58	MW
	11/28/05	36.35	278.38	242.03	MW
	09/01/05	29.83 [2]	278.38	248.55	MW
	05/23/05	Not located [3]	278.38	--	MW
	03/14/05	26.35	278.38	252.03	MW
	12/13/04	39.00	278.38	239.38	MW
	08/09/04	38.73	278.38	239.65	MW
	05/24/04	34.05	278.38	244.33	MW
	03/08/04	29.20	278.38	249.18	MW
	12/01/03	39.05	278.38	239.33	MW
	08/11/03	34.18	278.38	244.20	MW
	06/02/03	Not located [3]	278.38	--	MW
	03/10/03	30.66	278.38	247.72	MW
	12/02/02	38.88	278.38	239.50	MW
	08/26/02	36.20	278.38	242.18	MW
	05/28/02	31.37	278.38	247.01	MW
	03/04/02	30.15	278.38	248.23	MW
	11/26/01	40.46	278.38	237.92	MW
	08/27/01	Not located [3]	278.38	--	MW
	05/17/01	37.07 [4]	278.38	241.31	MW
NKGW02	02/26/07	14.10	312.00	297.90	MW
	08/14/06	17.34	312.00	294.66	MW
	05/22/06	12.60	312.00	299.40	MW
	03/06/06	10.02	312.00	301.98	MW
	11/28/05	19.99	312.00	292.01	MW
	08/29/05	18.37	312.00	293.63	MW
	05/23/05	13.95	312.00	298.05	MW
	03/14/05	11.15	312.00	300.85	MW
	12/13/04	15.10	312.00	296.90	MW
	08/09/04	19.75	312.00	292.25	MW
	05/24/04	16.45	312.00	295.55	MW
	03/08/04	12.25	312.00	299.75	MW
	12/01/03	20.07	312.00	291.93	MW
	08/11/03	17.73	312.00	294.27	MW
	06/02/03	16.20	312.00	295.80	MW
	03/10/03	14.58	312.00	297.42	MW
	12/02/02	Dry	312.00	291.5 [5]	MW
	08/26/02	19.07	312.00	292.93	MW
	05/28/02	16.34	312.00	295.66	MW
	03/04/02	13.11	312.00	298.89	MW
	11/26/01	20.06	312.00	291.94	MW
	08/27/01	Dry	312.00	291.5 [5]	MW
	05/08/01	16.51	312.00	295.49	MW
NKGW03	02/26/07	15.12	334.60	319.48	MW
	08/14/06	14.54	334.60	320.06	MW
	05/22/06	13.90	334.60	320.70	MW
	03/06/06	13.85	334.60	320.75	MW
	11/28/05	14.54	334.60	320.06	MW

Table A-13-5
Groundwater Elevation Summary
Nike Missile Facility
Presidio of San Francisco, California

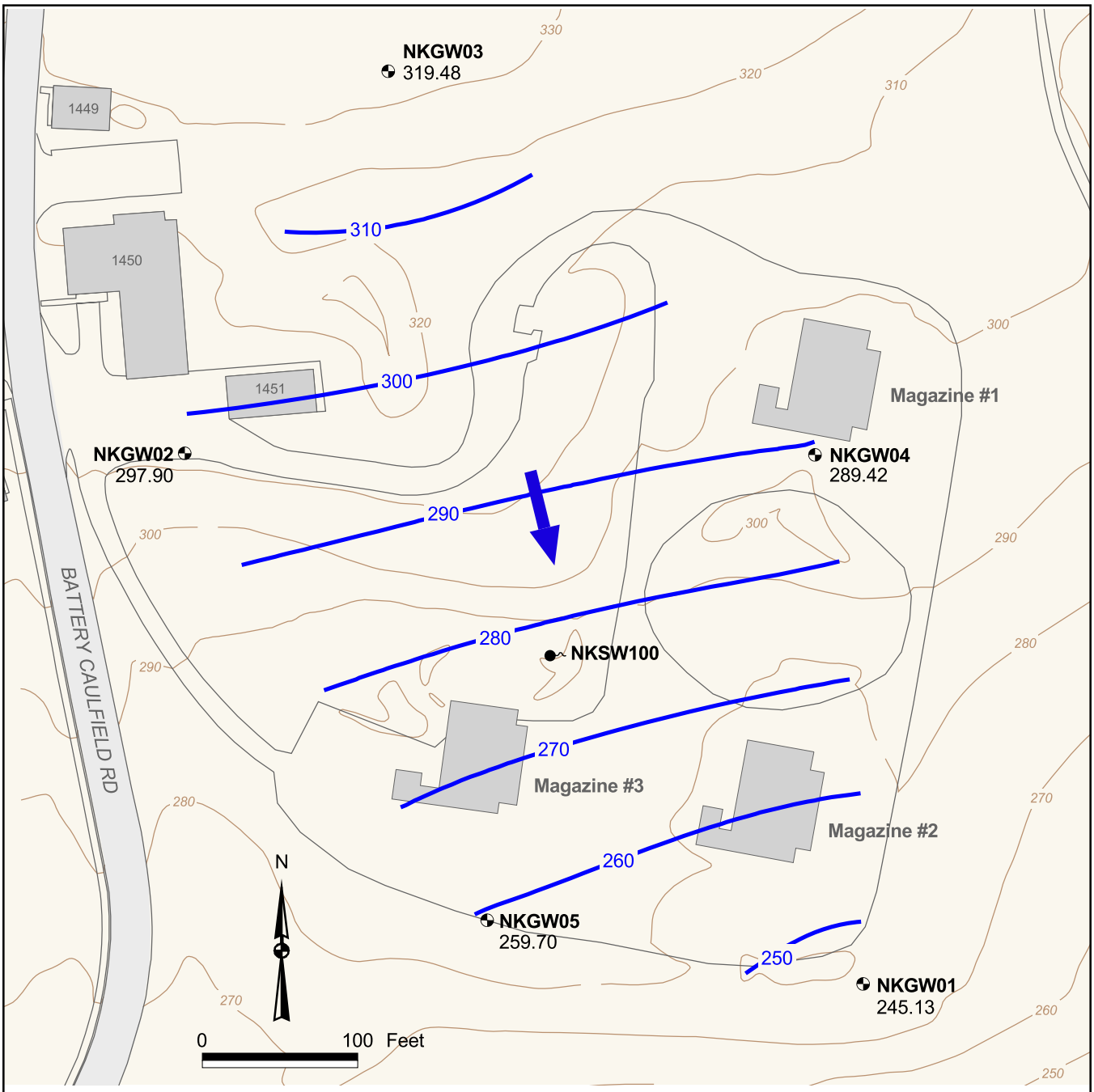
Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
NKGW03	08/29/05	14.58	334.60	320.02	MW
	05/23/05	14.39	334.60	320.21	MW
	03/14/05	12.80	334.60	321.80	MW
	12/13/04	14.65	334.60	319.95	MW
	08/09/04	14.68	334.60	319.92	MW
	05/24/04	14.66	334.60	319.94	MW
	03/08/04	13.21	334.60	321.39	MW
	12/01/03	14.65	334.60	319.95	MW
	08/11/03	14.60	334.60	320.00	MW
	06/02/03	14.55	334.60	320.05	MW
	03/10/03	14.53	334.60	320.07	MW
	12/02/02	14.50	334.60	320.10	MW
	08/26/02	14.47	334.60	320.13	MW
	05/28/02	14.47	334.60	320.13	MW
	03/04/02	13.58	334.60	321.02	MW
	11/26/01	Dry	334.60	320.7 [5]	MW
	08/27/01	Dry	334.60	320.7 [5]	MW
	05/08/01	14.53	334.60	320.07	MW
NKGW04	02/26/07	10.18	299.60	289.42	MW
	08/14/06	8.82	299.60	290.78	MW
	05/22/06	NM	299.60	NM	MW
	03/06/06	5.97	299.60	293.63	MW
	11/28/05	11.33	299.60	288.27	MW
	08/29/05	9.24	299.60	290.36	MW
	05/23/05	6.00	299.60	293.60	MW
	03/14/05	6.22	299.60	293.38	MW
	12/13/04	10.65	299.60	288.95	MW
	08/09/04	10.85	299.60	288.75	MW
	05/24/04	7.45	299.60	292.15	MW
	03/08/04	6.55	299.60	293.05	MW
	12/01/03	Not located [3]	299.60	--	MW
	08/11/03	Not located [3]	299.60	--	MW
	06/02/03	Not located [3]	299.60	--	MW
	03/10/03	7.52	299.60	292.08	MW
	12/02/02	10.59	299.60	289.01	MW
	08/26/02	9.90	299.60	289.70	MW
	05/28/02	7.90	299.60	291.70	MW
	03/04/02	8.81	299.60	290.79	MW
	11/26/01	12.34	299.60	287.26	MW
	08/27/01	11.88	299.60	287.72	MW
	05/08/01	11.10	299.60	288.50	MW
NKGW05	02/26/07	24.50	284.20	259.70	MW
	08/14/06	21.78	284.20	262.42	MW
	05/22/06	18.71	284.20	265.49	MW
	03/06/06	20.23	284.20	263.97	MW
	11/28/05	27.05	284.20	257.15	MW
	09/01/05	23.40 [2]	284.20	260.80	MW
	05/23/05	Not located [3]	284.20	--	MW
	03/14/05	19.82	284.20	264.38	MW
	12/13/04	27.15	284.20	257.05	MW

Table A-13-5
Groundwater Elevation Summary
Nike Missile Facility
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
NKGW05	08/09/04	27.55	284.20	256.65	MW
	05/24/04	26.07	284.20	258.13	MW
	03/08/04	22.80	284.20	261.40	MW
	12/01/03	27.50	284.20	256.70	MW
	08/11/03	Not located [3]	284.20	--	MW
	06/02/03	21.14	284.20	263.06	MW
	03/10/03	23.13	284.20	261.07	MW
	12/02/02	26.33	284.20	257.87	MW
	08/26/02	24.96	284.20	259.24	MW
	05/28/02	23.06	284.20	261.14	MW
	03/04/02	22.16	284.20	262.04	MW
	11/26/01	27.39	284.20	256.81	MW
	08/27/01	27.91	284.20	256.29	MW
	05/08/01	25.64	284.20	258.56	MW

Notes
1 - All depth to water measurements are an average of three measurements recorded in the field.
2 - NKGW01 and NKGW05 were not located during the water level survey. Both wells were measured during sampling on 1 September 2005.
3 - Value represents the bottom of casing elevation in feet PLLW.
4 - Monitoring well was not located during the water level survey.
5 - NKGW01 was not located during the water level survey on 8 May 2001. The groundwater elevation was measured on 17 May 2001.

MW - Monitoring well
NM - Not measured
feet PLLW - feet above Presidio Lower Low Water vertical datum



LEGEND

- Approximate Direction of Groundwater Flow
- Groundwater Contour (Contour Interval : 10 ft)
- Topographic Contour (Contour Interval : 10 ft)
- **NKGW01** 245.13 — Groundwater Monitoring Well February 2007 Groundwater Elevation
- **NKSW100** — Approximate Location of Nike Swale Seep
- Former Subsurface Nike Magazine
- 1450 — Building and Number

Notes:
Groundwater elevation data collected on 26 February 2007.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

NIKE MISSILE FACILITY
SITE PLAN AND 26 FEBRUARY 2007 GROUNDWATER ELEVATION MAP

Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 561-5315
October 2007

FIGURE A-13-1

Treadwell & Rollo 2893_04\Q2_2007\A_13.APR 10/2007

First Quarter 2007

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Nike Facility | Well No.: NKGW01

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: P. Cornish | Date: 3/7/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 48.39

Depth to Water (WL, ft. below TOC): 32.48

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp.

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: 0.5 gpm

4.5 gals ACTUAL PURGE VOLUME

DO YSI 550A

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron L Ultrameter / Hach 2100

Time / Liters or gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	ft DTW	Comments
1238 / initial	7.04	16.2	pre 0.31	976.6 µS	-	11		
1241 / 1.5	6.76	17.1	-	968.4	-	42	34.56	
1244 / 3	6.68	16.7	-	982.9	-	21	36.61	
1247 / 4.5	6.67	16.7	-	1012	-	22	36.81	
1249 / 5	6.66	16.6	-	1021	-	30	37.51	
/			post 0.20					
/								
/								
/				Post Purge DTW: 38.02'				
/								
/								
/								
/								
/								
/								

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other onsite Tank

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: 3/7/07 / 1256

Purging Equipment: Pump - Type: Bailer - Type: Disp. Other:

Sample Filtered: [X] Yes / No Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
NKGW01	3 x 1L Amber NP	C&T	2199	
	6 x 40ml Vial HCl			
	1 x 500ml Poly HNO3			
	1 x 250ml Poly NP			
	1 x 500ml Poly NaOH			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Nike Facility | Well No.: NKGW02

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: R. Cornish | Sampled by: R. Cornish | Date: 3/6/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 20.12

Depth to Water (WL, ft. below TOC): 13.82

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: 0.5 gpm

4.5 gals ACTUAL PURGE VOLUME

DO YSI 55 ok

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron Ultrameter / Hach 2100

Time	/ Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	(FP) DTW:	Comments
1335	/ initial	7.66	17.6	pre 0.89	424.7 µS	—	19		
1338	/ 1.5	7.16	16.5	—	410.4	—	21	14.10	
1341	/ 3	6.55	15.9	—	412.5	—	17	14.19	
1344	/ 4.5	6.52	15.7	—	410.6	—	14	14.42	
	/			post 0.95					
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other Onsite Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/6/07 / 1352

Purging Equipment: Pump - Type: Bailer - Type: Disp. Other:

Sample Filtered: (Yes) / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
NKGW02	3x Nm 500ml Poly NaOH	CAT		MS/MSD
	6x 40ml Voa HCl			Columbia split sample @ 1410
	3x 250ml Poly NP			ID NKGW02CL
	9x 1L Amber NP			

QUALITY CONTROL SAMPLES 3x 500ml Poly HNO_3

Duplicate Samples

Original Sample No.	Duplicate Sample No.
NKGW02	DUP030607-1C @ 1402

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Nike Facility | Well No.: NkGW03

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: — | Date: 8/26/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 15.12

Depth to Water (WL, ft. below TOC): 14.50

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/							
/		Insufficient water for Purge or Sample					
/		No sample					
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments | Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled /

Purging Equipment: Pump - Type | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
		CLI	2282	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Nike Fac. | Well No.: NkGw04

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P.Cornish | Sampled by: P.Cornish | Date: 3/2/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 20.10

Depth to Water (WL, ft. below TOC): 9.67

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.66
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp.

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: 0.5gpm

4.5 gals ACTUAL PURGE VOLUME

DO YSI 550A

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron L Ultrameter / Hach 2100

Time	/ Liters or (Gallons)	pH	Temp (C) °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	(Feet) DTW's	Comments
1326	/ Initial	7.73	14.8	pre 1.14	604.8 µS	-	51		
1328	/ 1.0	7.56	15.2	-	556.4	-	289	10.39	
1331	/ 3	7.49	15.3	-	533.1	-	479	11.30	
1334	/ 4.5	7.44	15.4	-	516.8	-	474	12.19	
	/			post 0.36					
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other Onsite Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/2/07 / 1342

Purging Equipment: Pump - Type: Bailer - Type: Disp. Other:

Sample Filtered: (Yes) / No Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
NkGw04	1x500ml Poly NP	CET	2189	
	1x500ml Poly HNO3			
	2x1L Amber NP			
	1x250ml Poly NP			

QUALITY CONTROL SAMPLES

1x500ml Poly NaOH

Duplicate Samples 6x40ml Voa HCl

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	FB030207 1A @ 1310
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Nike Facility | Well No.: NKGW05

Project Number: 2593 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P.Cornish | Sampled by: P.Cornish | Date: 3/7/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 33.20

Depth to Water (WL, ft. below TOC): 24.16

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp.

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: 0.5

5 gals ACTUAL PURGE VOLUME

DO YSI 550A

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron Ultrameter / Hach 2100

Time	/	Liters or (gallons)	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	(ft) DTW:	Comments
1055	/	initial	7.25	15.8	pre 0.13	730.1 µs	—	54	—	
1058	/	1.5	6.74	15.9	—	701.4	—	28	25.30	
1101	/	3	6.75	16.1	—	732.7	—	22	25.58	
1104	/	4.5	6.79	16.3	—	736.6	—	19	25.65	
1106	/	5	6.80	16.2	—	738.9	—	17	25.82	
	/				post 0.07		—			
	/									
	/					post purge DTW: 26.49				
	/									
	/									
	/									
	/									
	/									
	/									
	/									

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other Onsite Tank

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: 3/7/07 / 1114

Purging Equipment: Pump - Type: Bailer - Type: Disp. Other:

Sample Filtered: (Yes) / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
NKGW05	1x500ml Poly HNO3	CAT	2199	
	10x40ml Voa HCl			
	1x250ml Poly NP			
	3x1L Amber NP			

QUALITY CONTROL SAMPLES 1x500ml Poly NaOH

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Nike facility | Well No.: NKSW100

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other surface water

Recorded By: R. Cornish | Sampled by: R. Cornish | Date: 3/7/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [ ] 4-inch [X] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC):

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Seep Sample
Surface Water

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate

gals ACTUAL PURGE VOLUME 00

YSI 550A

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron L Ultrameter / Hach 2100

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1050 / -	6.97	16.2	out of range	273.0 µs	-	>1000	muddy
/							
/		- samples analyzed for Diss. & Total Metals					
/		- After field filtering the Diss. Metals, Particulate					
/		still observed in bottle - Lab contacted + steve stayles					
/		asked to have a 500ml Poly NP submitted in place of FF HNO_3					
/		to be filtered @ lab.					
/							
/							
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/							
/							
/							

Comments | Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 3/7/07 / 1050

Purging Equipment: Pump - Type | Bailer - Type: Disp. | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
NKSW100	1x500ml Poly NP	C&T	2200	Request of lab - to filter @ lab.
	1x500ml Poly HNO_3			
				Short TAT

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell & Rollo
Environmental and Geotechnical Consultant

BAKER BEACH DISTURBED AREA 3
APPENDIX SECTION A-14
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2007
Presidio of San Francisco, California

1.0 INTRODUCTION AND BACKGROUND

Baker Beach Disturbed Area 3 (BBDA 3) is located along the western edge of the Presidio within the ravine south of Battery Crosby (Figure 1). The site is bordered on the west by the Pacific Ocean and on the east by Lincoln Boulevard. Battery Crosby is north of the site, and the access road for the battery off Lincoln Boulevard bisects the site (Figure A-14-1). The site elevation ranges from approximately 50 to 250 feet above PLLW.

Based on a review of aerial photographs, BBDA 3 received fill material intermittently between 1948 and 1973. Fill material was initially placed in BBDA 3 for erosion control along Lincoln Boulevard and along the access road to Battery Crosby (Figure A-14-1). This area was used for additional dumping of debris until approximately 1973 (Treadwell & Rollo, 2004a).

On 6 February 2004, two temporary piezometers were installed and developed using surge and purge methods in general accordance with the FSP (Treadwell & Rollo, 2001a). At the time of the installation, the piezometers were identified as BB3PZ1A and BB3PZ1B. Subsequently, the piezometers were designated as BB3PZ100A and BB3PZ100B to adhere to QAPP naming conventions.

BBDA 3 excavation activities were conducted between July and December 2004, as described below in Section 3.0. Following the excavation activities, two monitoring wells, one piezometer and three fixed surface water sampling points were installed and quarterly groundwater monitoring began. An additional fixed surface water monitoring point, BB3SW104, and piezometer, BB3PZ102, were installed in the First Quarter 2007 as requested by DTSC.

2.0 SITE DESCRIPTION AND GEOLOGY

BBDA 3 is located near the southern boundary of the Coastal Groundwater Basin (Figure 1). Based upon hydrogeologic information from adjacent areas, groundwater may be present in limited areas of the landslide deposits, dune sands, and the weathered serpentinite bedrock formations. Groundwater has been encountered within the BBDA 3 footprint in the eastern portion of the site at depths of 18 to 29 feet bgs (Treadwell & Rollo, 2003c). Groundwater flow is assumed to follow the general topographic trend to the west toward the Pacific Ocean (Figures A-14-1 and A-14-2).

Battery Crosby is north of the site, and, prior to remedial activities, the access road for the battery off Lincoln Boulevard bisected the site (Figure A-14-1) (Treadwell & Rollo, 2005a). The fill material in BBDA 3 was composed primarily of soil and debris fill containing concrete, asphalt, and metal debris. Buttress fill material, consisting mainly of sand (fill sand) was initially placed in BBDA 3 along Lincoln Boulevard and along the access road to Battery Crosby. This area was used for additional dumping of debris (waste fill) until approximately 1973 (Dames & Moore, 1997).

The area in the vicinity of BBDA 3 is a steeply sloping bluff with a narrow beach (Baker Beach) at its base. Surface drainage in the area is to the west, toward the Pacific Ocean. Vegetation in the area consists of grasses, shrubs, and trees.

BBDA 3 lies at the boundary of two geologic regimes. The northern portion is predominantly Franciscan Formation overlain by landslide deposits, which generally consist of unstratified mixtures of bedrock fragments, sand, silt, and clay. The southern portion is covered almost entirely by Quaternary dune sand (Schlocker, 1974).

Prior to the remedial activities, an ephemeral seep, BB3SP01, flowed at the bottom of the ravine below BBDA 3 (Figure A-14-1). All historical surface water monitoring data for BBDA 3 are presented in the RAP. In May 2000, the Trust collected water samples from the shallow subsurface of the area and analyzed the samples for inorganics, TPHg, TPHd, VOCs, OCPs, PCBs, and chlorinated herbicides. One of the seep samples was found to contain TPHd at 77 µg/L (EKI, 2000).

At the request of DTSC, the Trust performed a slope stability analysis at BBDA 3 to determine whether excavation of the waste fill material at the site might undermine the structural fill buttress supporting Lincoln Boulevard east of Battery Crosby Road. The findings of this investigation are documented in the *Slope Stability Evaluation Report, Baker Beach Disturbed Area 3* (Treadwell & Rollo, 2004d). As recommended in that report, the stability of the slope supporting Lincoln Boulevard was monitored during excavation of waste materials at BBDA 3.

A pair of temporary piezometers were installed and monitored as part of the slope stability evaluation. Groundwater was found to be present in the dune sands and weathered serpentinite bedrock formations (Treadwell & Rollo, 2004d). Surface water drainage and groundwater flow appears to follow the general topographic trend, to the west and toward the Pacific Ocean. As documented in the RAP, it was anticipated that removal of the fill material could alter the location(s) of the freshwater seep(s) located at the western boundary of BBDA 3.

3.0 REMEDIAL ACTION PLAN

The *Remedial Action Plan* (RAP) *for Fill Site 6A and Baker Beach Disturbed Areas 3 and 4*, selected excavation, recycling, and offsite disposal of impacted fill material and underlying soil,

along with groundwater monitoring, as the remedial alternative for BBDA 3. The goal of the remediation at BBDA 3 was to remove all contaminated material, leaving in place soil that meets the established cleanup levels (Treadwell & Rollo, 2003c).

In accordance with the California Code of Regulations, Title 27, Subchapter 3, Section 20390, a site that has undergone clean closure (where all wastes and residues, contaminated subsoil, and other contaminated materials are removed or decontaminated at closure) must be shown to comply with the water quality protection standards or the cleanup levels presented in Section 3 of the RAP for three years. Table 1B from the *Draft Construction Completion Report Baker Beach Disturbed Areas 3 and 4* (Treadwell & Rollo, 2005a) summarizes groundwater cleanup levels applicable to BBDA 3. These cleanup levels are based on the most stringent values for protecting drinking and surface waters. RAP-specified groundwater cleanup levels for some analytes are slightly lower than their QAPP analytical reporting limits. Applicable RAP-specified cleanup levels are listed on Tables A-14-1 through A-14-4.

Prior to remediation excavation activities, existing temporary piezometers BB3PZ100A and BB3PZ100B were abandoned. Following completion of excavation activities, two new groundwater monitoring wells (BB3GW100 and BB3GW101) and four seep monitoring locations: one new piezometer (BB3PZ101) and three new fixed water monitoring points (BB3SW100 through BB3SW102) were installed to monitor groundwater quality in the area of BBDA 3. The new well, piezometer and fixed water monitoring point sampling locations are located near or within the former impacted area of BBDA 3 as shown on Figure A-14-1.

The monitoring well, piezometer and fixed water monitoring point sampling locations were installed in December 2004 after the completion of all excavation activities, but prior to the start of revegetation activities. Soil borings were advanced below the water table to total depths of 37 feet bgs and 32 feet bgs for installation of wells BB3GW100 and BB3GW101, respectively. On 13 December 2004, piezometer BB3PZ101 was installed in a hand-auger boring to a total depth of 18 feet. Three fixed water monitoring point installations were also installed at former BBDA 3 on 8 December 2004. Treadwell & Rollo performed the hand-augering and installation of the fixed water monitoring points. The boring and well completion logs are included in the *Draft Construction Completion Report Baker Beach Disturbed Areas 3 and 4, Appendix I* (Treadwell & Rollo, 2005a).

At the request of the DTSC, a fixed water monitoring point (BB3PZ102) was installed and added to the monitoring program in March 2006, approximately 30 feet southeast of BB3SW100. BB3PZ102 was also installed at former BBDA 3 on 8 December 2004. The fixed water monitoring point was installed in a hand-auger boring to a total depth of 6.5 feet. Treadwell & Rollo performed the hand-augering and installation of the fixed water monitoring point on 11 March 2006. An additional seep location (BB3SW104) was identified and added to the program in February 2006.

4.0 GROUNDWATER MONITORING

The First and Second Quarters 2007 were the tenth and eleventh monitoring events conducted at BBDA 3, since the new groundwater monitoring network was installed in December 2004. A total of eight monitoring wells, piezometers and fixed water monitoring points make up the monitoring network and are used to calculate groundwater elevations and collect groundwater samples.

During the First and Second Quarters 2007, groundwater elevation measurements and groundwater sampling was attempted at BBDA 3 within the two groundwater monitoring wells (BB3GW100 and BB3GW101), the two piezometers (BB3PZ101 and BB3PZ102), and the four fixed water monitoring points (BB3SW100 through BB3SW102 and BBSW104). Piezometer locations BB3PZ101 and BB3PZ102 were dry and fixed monitoring location BB3SW104 was not flowing during the First and Second Quarter 2007, therefore no groundwater elevations or samples were collected from these locations at that time. The proposed sampling schedules for First and Second Quarters 2007 are presented in Tables 1A and 1B.

4.1 Groundwater-Level Measurements and Interpretation

Groundwater elevation measurements during the First and Second Quarters 2007 were collected on 26 February and 4 June 2007. Groundwater elevation maps showing groundwater contours and flow directions for BBDA 3 are included as Figures A-14-1 and A-14-2. Water level meters were calibrated on 26 February and 4 June 2007 and the calibration logs can be found in Appendix B. Groundwater elevation field forms can be found in Appendix C.

Groundwater elevations at BBDA 3 during the First Quarter 2007 ranged from 62.74 to 167.53 feet above PLLW in fixed water monitoring point BB3SW100 and monitoring well BB3GW100, respectively. Groundwater elevations at the BBDA 3 during the Second Quarter 2007 ranged from 63.16 to 163.79 feet above PLLW in fixed water monitoring point BB3SW100 and monitoring well BB3GW100, respectively. Groundwater elevations are presented in Table A-14-4.

To gain a broader understanding of groundwater gradients and flow directions in the BBDA 3 area, the groundwater elevations were evaluated with Fill Site 5 measurements during the First Quarter 2007. Groundwater measurements were not collected at Fill Site 5 during the Second Quarter 2007 and therefore, Fill Site 5 groundwater elevations were not evaluated with BBDA 3 monitoring wells during the Second Quarter 2007.

During the First and Second Quarters 2007, the groundwater flow direction across BBDA 3 was observed to be in a southwesterly direction toward the Pacific Ocean, following the general topographic trend. Groundwater gradients in the eastern portion of the site were estimated to be approximately 0.19 and 0.14 feet per foot during the First and Second Quarters 2007, respectively.

4.2 Monitoring Well Purging and Sampling

Monitoring well BB3GW100 was the only location sampled during the First Quarter 2007. BB3GW100 was purged and sampled on 27 February 2007. During the Second quarter 2007, samples were collected on 5 and 6 June from monitoring well BB3GW100 and from fixed water monitoring point BB3SW101, respectively. Fixed water monitoring point BB3SW101 dewatered and only a partial bottle set could be collected from this location.

All sampling locations were sampled in accordance with methods shown in Tables 1A and 1B and procedures described in the FSP (Treadwell & Rollo, 2001a).

Purging equipment, purging volumes, purge water parameters, and sampling equipment for each sampling location are described in the purge records at the conclusion of this section. Purge water was stored for future disposal in one of two 2,800-gallon aboveground polyethylene storage tanks, which are located at the Central Magazine.

4.3 Groundwater Analytical Program

All groundwater samples were submitted to the project laboratory for the analyses shown in Tables 1A and1B of the main text. The appropriate sampling containers, preservatives, and maximum holding times for each analytical method are shown in Table 5. Sample containers used for each well are described in the purge records located at the conclusion of this section.

QA/QC samples were collected as part of this program. Section 6.2 of the main text discusses the QA/QC sampling and analysis performed for the First and Second Quarters.

5.0 GROUNDWATER ANALYTICAL RESULTS

During the First Quarter 2007, groundwater samples collected from monitoring well BB3GW100 were analyzed for general chemistry parameters, TDS, TPHg, TPHd, TPHfo, and dissolved metals. During the Second Quarter 2007, groundwater samples collected from monitoring well BB3GW100 were analyzed for general chemistry parameters, dissolved metals and TDS. Due to a limited amount of water present at fixed water monitoring point BB3SW101 during the Second Quarter 2007, only dissolved metals analyses could be conducted. All analyses were conducted in accordance with the groundwater sampling schedule (Tables 1A and 1B).

5.1 Dissolved Oxygen and General Chemistry Results

Dissolved oxygen and general chemistry results are presented in Table A-14-1.

During the First Quarter 2007, dissolved oxygen was measured at a concentration of 1.57 mg/L in BB3SW100. During the Second Quarter 2007, dissolved oxygen was measured at concentrations of 1.50 to 2.49 mg/L within BB3GW100 and BB3SW100, respectively. Higher

concentrations of dissolved oxygen are typically observed in the shallower fixed water monitoring points and piezometers versus the monitoring wells.

General chemistry analytical results are presented in Table A-14-1. The majority of general chemistry results were within historical ranges. Significant detections are discussed below.

- Nitrate was measured at a new high concentration of 520 mg/L within monitoring well BB3GW100 during the Second Quarter 2007. This detection was significantly higher than the previous high concentration within this well.

- Sulfate was measured at a new high concentration of 260 mg/L within monitoring well BB3GW100 during the Second Quarter 2007. This detection was almost four times higher than the previous high concentration of 66 mg/L within this well.

The elevated detections of nitrate and sulfate in BB3GW100 were significantly higher than previous detections within this well and appear to be anomalous. Due to the high concentrations of nitrate and sulfate present in the sample collected from BB3GW100, the laboratory had to dilute the sample, and as a result, the reporting limits for nitrite and fluoride were elevated. A review of laboratory and DataVal reports and discussions with the laboratory did not reveal a reason for these elevated detections. Future detections will be monitored to see if a new trend develops or if these results are anomalous. Remaining general chemistry results were within historical ranges, and can be attributed to natural fluctuations.

5.2 TPH Results

The analytical results for TPHg, TPHd, and TPHfo, along with the RAP-specified cleanup levels, are presented in Table A-14-2. TPHg, TPHd, and TPHfo were not detected within the First Quarter 2007 and were not analyzed for during the Second Quarter 2007.

5.3 Total and Dissolved Metals Results

The total and dissolved metals results for First and Second Quarters 2007, along with RAP-specified cleanup levels, are presented in Table A-14-3. No RAP-specified cleanup levels were exceeded in any groundwater samples collected at BBDA 3 during the First or Second Quarters 2007.

The following table summarizes new high and low dissolved metals results for the First and Second Quarters 2007 when compared to previous sampling events, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the date of commencement of sampling, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2007		Units
			Minimum	Maximum	Minimum	Maximum	
Metals							
BB3GW100	Copper	8/16	<1	2	--	2.3	µg/L
BB3SW101	Barium	6/6	13	23	12	--	µg/L
	Potassium	6/6	1,000	1,700	890	--	µg/L

The majority of dissolved metals concentrations were within historical ranges. New high and low dissolved metal concentrations were only slightly outside of historical concentrations and can be attributed to natural fluctuations.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Post-remediation monitoring at BBDA 3 began in December 2004 in accordance with the Final RAP. Data will continue to be reviewed on a quarterly basis to determine if modifications to the sampling program should be made. The First and Second Quarters 2007 were the tenth and eleventh monitoring events conducted at BBDA 3, since the new groundwater monitoring network was installed in December 2004.

Nitrate and sulfate concentrations within BB3GW100 were significantly higher than previous detections within this well and appear to be anomalous. Future detections will be monitored to see if a new trend develops or if these results are anomalous.

No other significant trends were identified during the First and Second Quarters 2007 at BBDA 3. Future detections and trends will continue to be monitored and evaluated in accordance with the RAP.

Table A-14-1
Results of Dissolved Oxygen Measurements and General Chemistry Analyses
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

Location ID	Sample Date	Alkalinity, Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	Field	E300.0	E300.0	E300.0	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Cleanup Levels [4]		--	--	**250,000**	--	--	--	--	--
BB3GW100	06/05/07	330	330	260	1.50	< 10	520	< 5	260
	02/27/07	290	290	240	1.57	< 0.1	5.8	< 0.05	56
	12/06/06	230	230	250	0.65	< 0.1	5.5	< 0.05	61
	08/15/06	280	280	250	0.2	< 0.1	4.9	< 0.05	66
DUP0815061A	08/15/06	230	230	250	--	< 0.1	5.2	< 0.05	61
	05/23/06	200	200	200	1.17	< 0.1	7.9	< 0.05	49
DUP0523063A	05/23/06	200	200	200	--	< 0.1	7.8	< 0.05	48
	03/16/06	250	250	220	0.56	< 0.1	8.1	< 0.05	49
	11/30/05	310 J+	310	260	1.6	< 0.1	5.4	< 0.05	58
DUP1130053A	11/30/05	310 J+	310	260	--	< 0.1	5.2	< 0.05	60
BB3GW100CL	11/30/05	287	287	292	--	< 1 U	5.26 J	< 0.1 U UJ	54.8
	08/31/05	250	250	240	0.9	< 0.1	6	< 0.05	52
	05/24/05	220	220	210	0.2	< 0.1	7.4	< 0.05	50
	03/22/05	260	260	190	0.9	< 0.1	12	< 0.05	47
DUP0322053A	03/22/05	220	220	190	--	< 0.1	12	< 0.05	48
	12/14/04	330	330	260	2.2	< 0.1	7.3	< 0.05	56
BB3GW101	12/01/05	NA	NA	NA	NM	NA	NA	NA	NA
	03/22/05	440	440	350	6.9	0.31	17	< 0.05	93
BB3PZ101 [3]	03/16/06	150	150	91	8.11	< 0.1	14	< 0.05	43
	03/22/05	190	190	140	1.3	< 0.1	25	< 0.05	71
	12/16/04	490	490	120	5.8	< 0.1	17	< 0.05	89
BB3PZ102	03/15/06	180	180	82	3.71	0.12	4.3	< 0.05	28
BB3SW100	06/06/07	NA	NA	NA	2.49	NA	NA	NA	NA
	02/27/07	NA	NA	NA	NM	NA	NA	NA	NA
	03/15/06	NA	NA	NA	2	NA	NA	NA	NA
	12/01/05	110	110	160	NM	< 0.1	8.6	< 0.05	37
	03/22/05	60	60	75	2.3	0.15	1.7	< 0.05	30
BB3SW101	03/15/06	NA	NA	NA	4.56	NA	NA	NA	NA
	12/01/05	88	88	82	NM	0.1	7.5	< 0.05	30
	05/24/05	44	44	67	2.9	< 0.1	8.9	< 0.05	31
	04/14/05	80	80	75	5.12	< 0.1	8.7	< 0.05	33
	03/22/05	44	44	83	4.9	< 0.1	9.1	< 0.05	36
	12/17/04	NA	NA	NA	8	NA	NA	NA	NA
BB3SW102	05/23/06	270	270	150	6.3	< 0.1	4.4	< 0.05	40
	03/15/06	250	250	180	4.6	< 0.1	3.6	< 0.05	42
	05/24/05	260	260	150	5.9	< 0.1	4.7	< 0.05	38
	04/14/05	180	180	140	5.84	< 0.1	5.3	< 0.05	36
	03/22/05	170	170	100	8.6	< 0.1	5.8	< 0.05	26
	12/17/04	370	370	130	6.7	< 0.1	25	< 0.05	77
BB3SW104	05/23/06	180	180	95	9.84	0.1	2.8	< 0.05	29
	03/08/06	160	160	71	8.32	< 0.1	4.5	< 0.05	25
DUP0308063B	03/08/06	140	140	72	--	< 0.1	4.5	< 0.05	25
BB3SW104CL	03/08/06	131	131	75.7	--	< 1 U	5.02	< 0.02 U	24.2

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001.
2 - Piezometer was abandoned prior to the remedial action following Second Quarter 2004 in preparation for the remedial action.
3 - BB3PZ101 was formerly named BB3SW103.
4 - Groundwater cleanup levels were taken from the *Remedial Action Plan for Fill Site 6A and Baker Beach Disturbed Areas 3 and 4, Presidio of San Francisco, California* (Treadwell & Rollo, 2003c).
mg/L - milligrams per liter
NA - not analyzed
NM - not measured
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-14-2
Results of TPH Analyses
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

Location ID	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**443**	**880**	**1,200**
BB3GW100	02/27/07	< 50	< 50	< 300
	08/15/06	< 50	< 50	< 300
DUP0815061A	08/15/06	< 50	< 50	< 300
	05/23/06	< 50	< 50	< 300
DUP0523063A	05/23/06	< 50	< 50	< 300
	03/16/06	< 50	78 HY	< 300
	11/30/05	< 50	< 50	< 300
DUP1130053A	11/30/05	< 50	< 50	< 300
BB3GW100CL	11/30/05	< 50 U	< 50 U	< 300 U
	08/31/05	< 50	< 50	< 300
	05/24/05	< 50	< 50	< 300
	03/22/05	< 50	< 50	< 300
DUP0322053A	03/22/05	< 50	< 50	< 300
	12/14/04	< 50	< 50	< 300
BB3GW101	05/24/05	< 50	< 50	< 300
	03/22/05	< 50	< 50	< 300
BB3PZ101 [3]	03/16/06	78 YZ	81 HY	< 300
	03/22/05	< 50	< 50	< 300
	12/16/04	< 50	< 50	< 300
BB3PZ102	03/15/06	< 50	< 50	< 300
BB3SW100	03/15/06	< 50	< 50	< 300
	12/01/05	< 50	< 56	< 330
BB3SW101	03/15/06	< 50	< 50	< 300
	12/01/05	< 50	< 50	< 300
	03/22/05	< 50	< 50	< 300
	12/17/04	< 50	NA	NA
BB3SW102	03/15/06	< 50	< 50	< 300
	05/24/05	< 50	< 50	< 300
	03/22/05	< 50	< 50	< 300
	12/17/04	< 50	< 50	< 300
BB3SW104	05/23/06	< 50	< 50	< 300
	03/08/06	< 50	< 50	< 300
DUP0308063B	03/08/06	< 50	< 50	< 300
BB3SW104CL	03/08/06	< 50 U	< 50 U	< 300 U

Notes

1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001.

2 - Groundwater cleanup levels were taken from the *Remedial Action Plan for Fill Site 6A and Baker Beach Disturbed Areas 3 and 4, Presidio of San Francisco, California* (Treadwell & Rollo, 2003c).

3 - BB3PZ101 was formerly named BB3SW103.

µg/L - micrograms per liter

TPH - total petroleum hydrocarbons

NA - not analyzed

Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.

Table 11 in the main report identifies current and historical data qualifiers.

Table A-14-3
Results of Total and Dissolved Metals Analyses
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

Location ID	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6010	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Target Effective Cleanup Levels [2] (Dissolved)		--	**6**	**10**	**1,000**	**4**	**1.1**	--	**50**	--	**11.8**	--	**3.2**	--	--	--	**100**	--	**5**	**4.1**	--	**2**	--	**106**	--
BB3GW100	06/05/07	< 100	< 1	< 5	97	< 2	< 1	32,000 J+	< 10	< 10	< 1	< 100	< 3	100,000	< 10	NA	22	710	< 5	< 1	130,000	< 1	< 10	< 20	760 J
	02/27/07	< 100	< 1	< 5	86	< 2	< 1	28,000	< 10	< 10	2.3	< 100	< 3	90,000	< 10	NA	< 20	630	< 5	< 1	110,000	< 1	< 10	< 20	740
	12/06/06	< 100	< 1	< 5	92	< 2	< 1	28,000	< 10	< 10	< 1	< 100	< 3	94,000	< 10	NA	21	800	< 5	< 1	120,000 J	< 1	< 10	< 20	710 J-
	08/15/06	< 100	< 1	< 5	96	< 2	< 1	30,000	< 10	< 10	< 1	< 100	< 3	90,000	24	NA	25	750	< 5	< 1	120,000	< 1	< 10	< 20	800
DUP0815061A	08/15/06	< 100	< 1	< 5	96	< 2	< 1	29,000	< 10	< 10	< 1	< 100	< 3	90,000	< 10	NA	25	710	< 5	< 1	120,000	< 1	< 10	< 20	860
	05/23/06	< 100	< 1	< 5	81	< 2	< 1	22,000	< 10	< 10	1.1	< 100	< 3	74,000	< 10	NA	< 20	600	< 5	< 1	97,000	< 1	< 10	< 20	640
DUP0523063A	05/23/06	< 100	< 1	< 5	77	< 2	< 1	21,000	< 10	< 10	1.6	< 100	< 3	72,000	< 10	NA	< 20	640	< 5	< 1	95,000	< 1	< 10	< 20	660
	03/16/06	< 100 UJ	< 1	< 5	89	< 2	< 1	24,000	< 10	< 10	< 1	< 100	< 3	81,000	< 10	NA	< 20	700	< 5	< 1	100,000 J	< 1	< 10	< 20	890 J
	11/30/05	< 100	< 1	< 5	93	< 2	< 1	29,000	11 J	< 10	1	160	< 3	97,000	27	NA	< 20	980	< 5	< 1	120,000	< 1	< 10	< 20	810
DUP1130053A	11/30/05	< 100	< 1	< 5	91	< 2	< 1	31,000	< 10 UJ	< 10	< 1	100	< 3	100,000	22	NA	< 20	970	< 5	< 1	130,000	< 1	< 10	< 20	860
BB3GW100CL	11/30/05	< 100 U	< 2 U	< 2 U	100	< 1 U	< 1 U	33,000	13	< 1 U	2	< 100 U	< 1 U	100,000	18	NA	19	< 5,000 UN	3.7	< 1 U	120,000	< 1 U	< 10 U	< 20 U	831
	08/31/05	< 100	< 1	< 5	< 10	< 2	< 1	16,000	29	< 10	< 1	160	< 3	70,000	< 10	NA	< 20	2,500 J	< 5	< 1	120,000	< 1	< 10	< 20	910
	05/24/05	< 100 UJ	< 1	< 5	82	< 2	< 1	26,000	< 10	< 10	1.6	< 100	< 3	80,000	< 10	NA	20	670	< 5	< 1	110,000	< 1	< 10	< 20	810
	03/22/05	< 100	< 1	< 5	73	< 2	< 1	22,000	< 10	< 10	1.1	100	< 3	78,000	< 10	NA	< 20	670	< 5	< 1	110,000	< 1	< 10	< 20	330
DUP0322053A	03/22/05	< 100	< 1	< 5	70	< 2	< 1	20,000	< 10	< 10	1.1	100	< 3	73,000	< 10	NA	< 20	630	< 5	< 1	100,000	< 1	< 10	< 20	770
	12/14/04	< 100	< 1	< 5	68	< 2	< 1	32,000 J	14	< 10	< 1	< 100	< 3	98,000	< 10	NA	22	1,400	< 5	< 1	130,000	< 1	< 10	< 20	2,280
BB3GW101	03/22/05	< 100	< 1	5.1	18	< 2	< 1	63,000	46	< 10	4.9	310	< 3	120,000	< 10	NA	< 20	6,500	< 5	< 1	160,000	< 1	< 10	22	1,180
BB3PZ101 [3]	03/16/06	< 100 UJ	< 1	< 5	43	< 2	< 1	26,000	< 10	< 10	1.8	< 100	< 3	41,000	< 10	NA	< 20	2,400	< 5	< 1	65,000 J	< 1	< 10	< 20	600 J
	03/22/05	< 100	< 1	< 5	68	< 2	< 1	45,000	< 10	< 10	2.7	240	< 3	59,000	< 10	NA	< 20	3,900	< 5	< 1	83,000	< 1	< 10	< 20	560
	12/16/04	< 100	< 1	< 5	74	< 2	< 1	31,000	< 10	< 10	3.3	260	< 3	87,000	49	NA	< 20	1,500	< 5	< 1	92,000	< 1	< 10	< 20	870
BB3PZ102	03/15/06	< 2,000	< 1	< 5	19	< 2	< 1	20,000	< 10	< 10	2.6	310	< 3	30,000	54	NA	< 20	1,800	< 5	< 1	52,000	< 1	< 10	< 20	540 J
BB3SW100	12/01/05	170	< 1	< 5	11	< 2	< 1	7,200	< 10	< 10	4.5	860	< 3	9,100	340	NA	31	2,800	< 5	< 1	100,000	< 1	< 10	< 20	430
	03/22/05	380	< 1	< 5	< 10	< 2	< 1	4,700	< 10	< 10	5.2	890	< 3	4,000	210	NA	54	2,100	< 5	< 1	70,000	< 1	< 10	< 20	1,500
BB3SW101	06/06/07	< 100	< 1	< 5	12	< 2	< 1	8,000	< 10	< 10	1.6	< 100	< 3	12,000	260	NA	< 20	890	< 5	< 1	38,000	< 1	< 10	< 20	NA
	05/23/06	< 100	< 1	< 5	13	< 2	< 1	6,500	< 10	< 10	3.2	< 100	< 3	9,700	78	NA	< 20	1,000	< 5	< 1	33,000	< 1	< 10	< 20	NA
	12/01/05	< 100	< 1	< 5	17	< 2	< 1	13,000	< 10	< 10	1.4	< 1,000	< 3	16,000	790	NA	< 20	1,700	< 5	< 1	38,000	< 1	< 10	< 20	200
	05/24/05	< 100 UJ	< 1	< 5	23	< 2	< 1	11,000	< 10	< 10	2.9	170	< 3	15,000	20	NA	< 20	1,400	< 5	< 1	45,000	< 1	< 10	< 20	330
	04/14/05	< 100	< 1	< 5	17	< 2	< 1	13,000	< 10	< 10	3.8	< 100	< 3	18,000	40	NA	< 20	1,400	< 5	< 1	49,000	< 1	< 10	< 20	NA
	03/22/05	< 100	< 1	< 5	19	< 2	< 1	15,000	< 10	< 10	2.7	110	< 3	22,000	63	NA	< 20	1,700	< 5	< 1	52,000	< 1	< 10	< 20	400
BB3SW102	05/23/06	< 100	< 1	< 5	56	< 2	< 1	15,000	**64**	< 10	1	< 100	< 3	83,000	< 10	NA	< 20	890	< 5	< 1	76,000	< 1	< 10	< 20	470
	03/15/06	< 100	< 1	< 5	55	< 2	< 1	16,000	**60**	< 10	< 1	< 100	< 3	91,000	< 10	NA	< 20	760	< 5	< 1	84,000	< 1	< 10	< 20	780 J
	05/24/05	< 100 UJ	< 1	< 5	43	< 2	< 1	18,000	**52**	< 10	2.1	< 100	< 3	81,000	< 10	NA	< 20	970	< 5	< 1	76,000	< 1	< 10	< 20	660
	04/14/05	< 100	< 1	< 5	35	< 2	< 1	22,000	46	< 10	1.2	< 100	< 3	62,000	< 10	NA	< 20	1,200	< 5	< 1	62,000	< 1	< 10	< 20	NA
	03/22/05	< 100	< 1	< 5	25	< 2	< 1	20,000	30	< 10	1.3	160	< 3	45,000	< 10	NA	< 20	1,200	< 5	< 1	47,000	< 1	< 10	< 20	420
	12/17/04	< 100	< 1	< 5	37	< 2	< 1	24,000	36	< 10	2.6	< 100	< 3	83,000	18	NA	< 20	1,100	< 5	< 1	59,000	< 1	< 10	35	< 20
BB3SW104	05/23/06	< 100	< 1	< 5	31	< 2	< 1	24,000	< 10	< 10	2.4	< 100	< 3	41,000	16	NA	< 20	970	< 5	< 1	55,000	< 1	< 10	< 20	370
	03/08/06	< 100	< 1	< 5	18	< 2	< 1	18,000	< 10	< 10	2.5	< 100	< 3	32,000	< 10	NA	< 20	1,200	< 5	< 1	44,000	< 1	< 10	24	400
DUP0308063B	03/08/06	< 100	< 1	< 5	19	< 2	< 1	18,000	< 10	< 10	2.7	< 100	< 3	33,000	10	NA	< 20	1,100	< 5	< 1	45,000	< 1	< 10	< 20	380
BB3SW104CL	03/08/06	< 100 U	< 2 U	< 2 U	21	< 1 U	< 1 U	21,000	12	< 1 U	3.0	< 100 U	< 1 U	36,000	11	NA	10	< 5,000 U	< 2 U	< 1 U	49,000	< 1 U	< 10 U	< 20 U	348

Table A-14-3
Results of Total and Dissolved Metals Analyses
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

Total Metals

Location ID	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
BB3PZ101	12/16/04	8,400	< 1	7.5	190	< 2	< 1	32,000	< 100	10	17	17,000	11	98,000	440	NA	59	2,400	< 5	< 1	100,000	< 1	38	41	NA
BB3PZ102	03/15/06	65,000	1.8	39	790	< 2	3.5	35,000	440	190	96	120,000	86	56,000	22,000	NA	1,200	5,100	< 5	< 1	52,000	< 1	300	480	NA
BB3SW100	12/01/05	7,600	< 1	10	92	< 2	< 1	14,000	46	22	23	19,000	40	13,000	1,200	NA	99	3,500	< 5	< 1	110,000	< 1	58	290	NA
BB3SW101	05/23/06	5,600	< 1	< 5	92	< 2	< 1	9,300	25	12	11	8,400	10	14,000	380	NA	51	1,400	< 5	< 1	34,000	< 1	26	61	NA
	12/01/05	< 1,000	< 1	< 5	29	< 2	< 1	13,000	< 10	< 10	7.5	2,000	8.2	18,000	960	NA	< 20	1,800	< 5	< 1	49,000	< 1	17	< 20	NA
	05/24/05	13,000	< 1	5.3	130	< 2	< 1	16,000	62	26	18	16,000	24	21,000	940	NA	88	2,500	< 5	< 1	46,000	< 1	43	94	NA
	04/14/05	6,000	< 1	< 5	59	< 2	< 1	17,000	29	< 10	8.8	8,200	12	20,000	290	NA	39	2,300	< 5	< 1	48,000	< 1	18	49	NA
BB3SW102	05/23/06	2,200	< 1	< 5	120	< 2	< 1	15,000	64	< 10	8.9	3,600	6.9	79,000	380	NA	31	1,200	< 5	< 1	73,000	< 1	16	36	NA
	03/15/06	22,000	< 1	11	210	< 2	< 1	17,000	170	24	30	30,000	31	98,000	990	NA	120	2,600	< 5	< 1	83,000	< 1	79	85	NA
	05/24/05	4,600	< 1	< 5	220	< 2	< 1	22,000	56	37	29	5,900	26	89,000	1,300	NA	130	1,300	< 5	< 1	74,000	< 1	45	65	NA
	04/14/05	10,000	< 1	5.5	280	< 2	< 1	32,000	93	46	40	15,000	31	76,000	2,000	NA	150	2,400	< 5	< 1	64,000	< 1	58	93	NA
	12/17/04	9,600	< 1	6.3	140	< 2	< 1	23,000	100	24	30	16,000	23	95,000	780	NA	150	1,700	< 5	< 1	61,000	< 1	49	63	NA
BB3SW104	05/23/06	2,700	< 1	< 5	160	< 2	< 1	28,000	19	11	8.9	3,100	11	41,000	360	NA	37	1,200	< 5	< 1	51,000	< 1	22	50	NA
	03/08/06	3,200	< 1	< 5	100	< 2	< 1	23,000	26	11	13	5,400	14	40,000	320	NA	43	1,600	< 5	< 1	44,000	< 1	21	58	NA
DUP0308063B	03/08/06	4,000	< 1	< 5	110	< 2	< 1	24,000	29	12	12	6,400	16	41,000	360	NA	45	1,500	< 5	< 1	44,000	< 1	24	62	NA
BB3SW104CL	03/08/06	5,300	< 2 U	2.5	130	< 1 U	< 1 U	28,000	42	9	8.4	7,300 J+	8.4	42,000	370	NA	38	< 5,000 U	< 2 U	< 1 U	54,000	< 1 U	29	54	NA

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001.
2 - Groundwater cleanup levels were taken from the *Remedial Action Plan for Fill Site 6A and Baker Beach Disturbed Areas 3 and 4, Presidio of San Francisco, California* (Treadwell & Rollo, 2003c).
3 - BB3PZ101 was formerly named BB3SW103.
Bold numbers indicate concentrations of metals which exceed cleanup criteria.
All metals results represent dissolved metals, unless indicated as "total" in the left-hand column for total metal results. The target effective cleanup levels are presented for dissolved and total metals concentrations, as applicable.
mg/L - milligrams per liter
µg/L - micrograms per liter
NA - not analyzed
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-14-4
Groundwater Elevation Summary
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

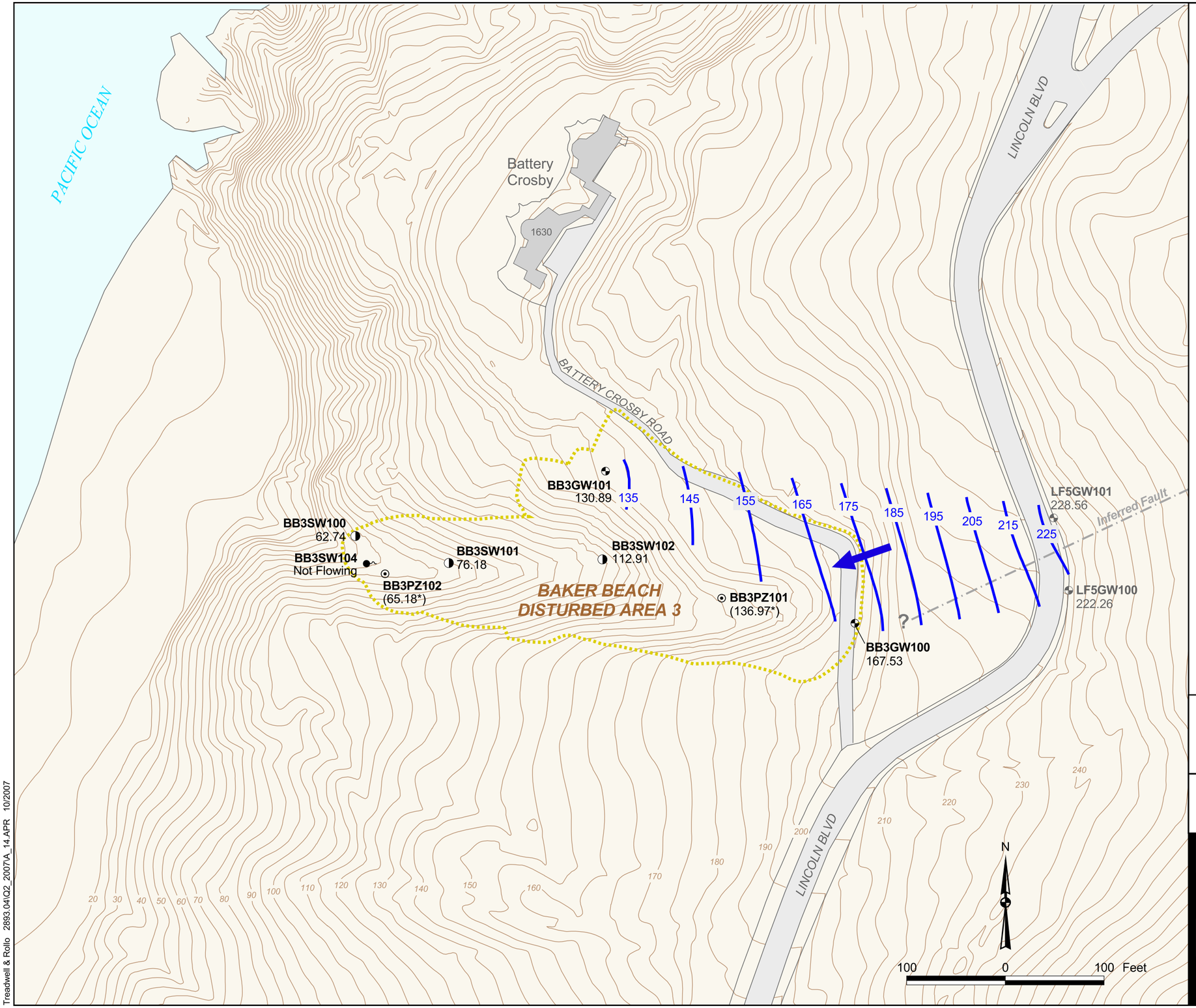
Location ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
BB3GW100	06/04/07	30.44	193.84	163.40	MW
	02/26/07	26.31	193.84	167.53	MW
	12/04/06	30.64	193.84	163.20	MW
	08/14/06	29.94	193.84	163.90	MW
	05/22/06	25.40	193.84	168.44	MW
	03/06/06	24.85	193.84	168.99	MW
	11/28/05	32.47	193.84	161.37	MW
	08/29/05	30.82	193.84	163.02	MW
	05/23/05	27.35	193.84	166.49	MW
	03/14/05	23.40	193.84	170.44	MW
	12/13/04	32.80	193.84	161.04	MW
BB3GW101	06/04/07	27.41	158.28	130.87	MW
	02/26/07	27.39	158.28	130.89	MW
	12/04/06	27.39	158.28	130.89	MW
	08/14/06	27.39	158.28	130.89	MW
	05/22/06	26.05	158.28	132.23	MW
	03/06/06	26.68	158.28	131.60	MW
	11/28/05	27.25	158.28	131.03	MW
	08/29/05	27.25	158.28	131.03	MW
	05/23/05	26.60	158.28	131.68	MW
	03/14/05	26.40	158.28	131.88	MW
	12/13/04	Dry	158.28	130.63 [2]	MW
BB3PZ101 [3]	06/04/07	Dry	156.97	NM	PZ
	02/26/07	Dry	156.97	NM	PZ
	12/04/06	Dry	156.97	136.97 [2]	PZ
	08/14/06	Dry	156.97	136.97 [2]	PZ
	05/22/06	Dry	156.97	136.97 [2]	PZ
	03/06/06	17.32	156.97	139.65	PZ
	11/28/05	Dry	156.97	136.97 [2]	PZ
	08/29/05	Dry	156.97	136.97 [2]	PZ
	05/23/05	Dry	156.97	136.97 [2]	PZ
	03/14/05	16.23	156.97	140.74	PZ
	12/13/04	16.80	156.97	140.17	PZ
BB3PZ102	06/04/07	Dry	73.18	NM	PZ
	02/26/07	Dry	73.18	NM	PZ
	12/04/06	Dry	73.18	65.18 [2]	PZ
	08/14/06	6.97	73.18	66.21	PZ
	05/22/06	Dry	73.18	65.18 [2]	PZ
	03/06/06	6.15	73.18	67.03	PZ
BB3SW100	06/04/07	4.18	67.34	63.16	FMP
	02/26/07	4.60	67.34	62.74	FMP
	12/04/06	4.10	67.34	63.24	FMP
	08/14/06	4.85	67.34	62.49	FMP
	05/22/06	3.96	67.34	63.38	FMP
	03/06/06	3.04	67.34	64.30	FMP
	11/28/05	4.15	67.34	63.19	FMP
	08/29/05	4.19	67.34	63.15	FMP
	05/23/05	4.10	67.34	63.24	FMP
	03/14/05	3.62	67.34	63.72	FMP
	12/13/04	Dry	67.34	--	FMP
BB3SW101	06/04/07	2.87	78.98	76.11	FMP
	02/26/07	2.80	78.98	76.18	FMP
	12/04/06	2.90	78.98	76.08	FMP
	08/14/06	3.00	78.98	75.98	FMP
	05/22/06	2.36	78.98	76.62	FMP
	03/06/06	1.94	78.98	77.04	FMP

Table A-14-4
Groundwater Elevation Summary
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

Location ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
BB3SW101	11/28/05	2.86	78.98	76.12	FMP
	08/29/05	3.00	78.98	75.98	FMP
	05/23/05	1.75	78.98	77.23	FMP
	03/14/05	1.85	78.98	77.13	FMP
	12/13/04	3.22	78.98	75.76	FMP
BB3SW102	06/04/07	3.08	115.39	112.31	FMP
	02/26/07	2.48	115.39	112.91	FMP
	12/04/06	Dry	115.39	110.39 [6]	FMP
	08/14/06	Dry	115.39	110.39 [6]	FMP
	05/22/06	1.93	115.39	113.46	FMP
	03/06/06	2.00	115.39	113.39	FMP
	11/28/05	Dry	115.39	110.39 [6]	FMP
	08/29/05	Dry	115.39	110.39 [6]	FMP
	05/23/05	2.33	115.39	113.06	FMP
	03/14/05	1.68	115.39	113.71	FMP
	12/13/04	2.73	115.39	112.66	FMP
BB3SW104	06/04/07	Not flowing	66.07	NM	Surface
	02/26/07	Not flowing	66.07	NM	Surface
	12/04/06	Not flowing	66.07	NM	Surface
	08/14/06	Not flowing	66.07	NM	Surface
	05/22/06	Flowing	66.07	66.07	Surface
	03/06/06	Flowing	66.07	66.07	Surface

Notes
1 - All depth to water measurements are an average of three measurements recorded in the field.
2 - Value indicates bottom of casing elevation in PLLW.
3 - BB3PZ101 was formerly named BB3SW103. Additionally, the depth to water measurement (14.45 feet) during the Fourth Quarter 2004 was measured from the ground surface. Subsequently, the ground and the top of casing elevations were surveyed and the depth to water measurement was converted to a top of casing measurement (16.80 feet).

FMP - Fixed Water Monitoring Point
NM - Not measured
MW - Monitoring Well
PZ - Piezometer
feet PLLW - feet above Presidio lower low water vertical datum



LEGEND

- **BB3GW100** 167.53 — Groundwater Monitoring Well, February 2007 Groundwater Elevation
- **BB3PZ101** (136.97*) — Piezometer, February 2007 Groundwater Elevation
- (136.97*) — Dry Well. Value Indicates Bottom of Casing Elevation in Feet PLLW
- **BB3SW100** 62.74 — Fixed Water Monitoring Point, February 2007 Groundwater Elevation
- **BB3SW104** — Surface Water Seep
- **LF5GW100** 222.26 — Adjacent Study Area Well, February 2007 Groundwater Elevation
- Approximate Direction of Groundwater Flow
- Groundwater Elevation Contour (Contour Interval : 10 ft)
- Limits of Excavated Fill
- Inferred Fault
- Topographic Contour (Contour Interval : 5 ft)
- 1630 — Building and Number

Notes:
Groundwater elevation data collected 26 February 2007.

The Fixed Water Monitoring Points were not used in groundwater contouring.

Location of inferred fault from Revised Feasibility Study Main Installation Sites (EKI, 2003).

Post-excavation topography within limits of excavation fill surveyed by R.W. Davis & Associates on 2 December 2004.

Base map provided by the Presidio Trust in June 2003.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

BAKER BEACH DISTURBED AREA 3 SITE PLAN AND 26 FEBRUARY 2007 GROUNDWATER ELEVATION MAP

Treadwell&Rollo

THE PRESIDIO TRUST

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October 2007

FIGURE A-14-1

Treadwell & Rollo 2893.04\Q2_2007\A_14.APR 10/2007

PACIFIC OCEAN

Battery Crosby

1630

BATTERY CROSBY ROAD

LINCOLN BLVD

BB3GW101
130.87

BB3SW100
63.16

BB3SW104
Not Flowing

BB3SW101
76.11

BB3PZ102
(65.18*)

BB3SW102
112.31

BAKER BEACH
DISTURBED AREA 3

BB3PZ101
(136.97*)

BB3GW100
163.40

LF5GW101
NM

Inferred Fault

LF5GW100
NM

135 145 155

20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240

N

100 0 100 Feet

LEGEND

BB3GW100 163.40	Groundwater Monitoring Well June 2007 Groundwater Elevation
BB3PZ101 (136.97*)	Piezometer June 2007 Groundwater Elevation
(136.97*)	Dry Well. Value Indicates Bottom of Casing Elevation in Feet PLLW
BB3SW100 63.16	Fixed Water Monitoring Point June 2007 Groundwater Elevation
BB3SW104	Surface Water Seep
LF5GW100	Adjacent Study Area Well
NM	Not Measured
	Approximate Direction of Groundwater Flow
	Groundwater Elevation Contour (Contour Interval : 10 ft)
	Limits of Excavated Fill
	Inferred Fault
	Topographic Contour (Contour Interval : 5 ft)
1630	Building and Number

Notes:
Groundwater elevation data collected 4 June 2007.

The Fixed Water Monitoring Points were not used in groundwater contouring.

Location of inferred fault from Revised Feasibility Study Main Installation Sites (EKI, 2003).

Post-excavation topography within limits of excavation fill surveyed by R.W. Davis & Associates on 2 December 2004.

Base map provided by the Presidio Trust in June 2003.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

BAKER BEACH DISTURBED AREA 3 SITE PLAN AND 4 JUNE 2007 GROUNDWATER ELEVATION MAP

Treadwell&Rollo

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October 2007

FIGURE A-14-2

Treadwell & Rollo 2893.04\Q2_2007\A_14.APR 10/2007

First Quarter 2007

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Baker Beach | Well No.: BB3GW100

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BR | Sampled by: BR (B.Sunnucht) | Date: 2-27-07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC) :

Depth to Water (WL, ft. below TOC) : 26.11

Depth to free phase (FP, ft. below TOC) :

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: disp

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length — X — Water Volume/ft — X — No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate:

Purge Rate: 0.5 gpm

4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron L / Hach 2100P YSI DO

Time	/ Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm) (uS)	ORP (mV)	Turbidity (NTU)	Comments
1108	/ Initial	6.56	13.9	1.43 (pre)	1196		48	
1117	/ 1.5	6.58	15.0		1253		45	
1114	/ 3.0	6.63	15.1		1357		45	
1117	/ 4.5	6.68	14.9		1362		57	
	/		Post	1.57				
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: 2-27-07 / 1126

Purging Equipment: Pump - Type: disp Bailer - Type: disp Other:

Sample Filtered: (Yes) / No Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BB3GW100	2 x 1L Amber	CTT	2180	
	3 x 40ml HCl VOA			
	1 x 1L Poly			
	1 x 500 HNO3			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell & Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area BB3 Well No. BB3GW101

Project Number 2893 Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By P. Cornish Sampled by — Date 2/26/07

WELL PURGING

PURGE VOLUME

Well casing diameter

[ ] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC) : 27.95

Depth to Water (WL, ft. below TOC) : 27.39

Depth to free phase (FP, ft. below TOC) :

Number of borehole volumes to be purged

[ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type

[ ] Normal [ ] Pump \ Type

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/		Insufficient water for purge or sample					
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled /

Purging Equipment Pump - Type Bailer - Type Other

Sample Filtered: Yes / No Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area BB3 Well No. BB3PE101

Project Number 2893 Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By P. Cornish Sampled by - Date 2/26/07

WELL PURGING

PURGE VOLUME

Well casing diameter

[ ] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC) : 18.05

Depth to Water (WL, ft. below TOC) : Dry

Depth to free phase (FP, ft. below TOC) :

Number of borehole volumes to be purged

[ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type

[ ] Normal [ ] Pump \ Type

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/		well dry - No sample					
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled /

Purging Equipment Pump - Type Bailer - Type Other

Sample Filtered: Yes / No Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BB3 | Well No.: BB3PZ102

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: + | Date: 2/26/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 7.00

Depth to Water (WL, ft. below TOC): Dry

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/		well Dry - No sample					
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments | Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled /

Purging Equipment: Pump - Type | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area BB3 | Well No. BB3SW100

Project Number 25893 | Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By P. Cornish | Sampled by — | Date 2/26/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 459

Depth to Water (WL, ft. below TOC): 460

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/		well dry - No sample					
/			Insufficient water for purge or sample				
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments | Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled /

Purging Equipment: Pump - Type | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area 24 BB3 | Well No. BB3SW101

Project Number 7893 | Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By P. Cornish | Sampled by - | Date 2/26/07

WELL PURGING

PURGE VOLUME

Well casing diameter

[ ] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 3.60

Depth to Water (WL, ft. below TOC): 2.80

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged

[ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type

[ ] Normal [ ] Pump \ Type

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/			Insufficient water for purge or sample				
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled /

Purging Equipment Pump - Type Bailer - Type Other

Sample Filtered: Yes / No Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BB3 | Well No.: BB3 SW102

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Corrigan | Sampled by: - | Date: 2/26/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 3.14

Depth to Water (WL, ft. below TOC): 2.48

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/			Insufficient water for purge or sample				
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments | Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled /

Purging Equipment: Pump - Type | Bailer - Type | Other

Sample Filtered: Yes / No Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area BB3 Well No. BB3SW104

Project Number 2693 Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By D. Cornish Sampled by — Date 2/26/07

WELL PURGING

PURGE VOLUME

Well casing diameter

[ ] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC) :

Depth to Water (WL, ft. below TOC) :

Depth to free phase (FP, ft. below TOC) :

Number of borehole volumes to be purged

[ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type

[ ] Normal [ ] Pump \ Type

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/		Sleep Not Running - checks 1st & second Day					
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled /

Purging Equipment Pump - Type Bailer - Type Other

Sample Filtered: Yes / No Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
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Second Quarter 2007

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BB3 | Well No.: BB3GW100

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: Steven R. | Sampled by: Steven R. | Date: 6/5/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 38.64

Depth to Water (WL, ft. below TOC): 30.40

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: .5 gpm

4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type:

Time	/ Liters or (Gallons)	pH	Temp °C °F	DO (mg/L)	Sp. COND ~~mS/cm~~ µS	ORP (mV)	Turbidity (NTU)	Comments
1426	/ Init.	6.8	17.8	Pre= 1.60	1440	-	4.9	
1428	/ 1.5	6.9	17.3	-	1453	-	871	
1431	/ 3	6.9	17.3	-	1444	-	>1000	
1434	/ 4.5	6.9	17.3	-	1446	-	>1000	
	/			Post= 150				
	/							
	/			Post DTW=	36.61			
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6/5/07 / 1445

Purging Equipment: Pump - Type: Bailer - Type: Disp. Other:

Sample Filtered: (Yes) / No Filtered Sample Analysis: Dissolved Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BB3GW100	3x 500ml poly NP	C+T	2156	MS/MSD
	3x 500ml Poly HNO3			
	3x 250ml Poly NP			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultants

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BB3 | Well No.: BB3GW101

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: — | Date: 6/4/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 27.95

Depth to Water (WL, ft. below TOC): 27.41

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Insufficient water

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/							
/		Insufficient water for Purge or Sample					
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments | Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled /

Purging Equipment: Pump - Type | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area BB3 Well No. BB3SW10S

Project Number 2893 Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By P. Cornish Sampled by P. Cornish Date 6/5/07

WELL PURGING

PURGE VOLUME

Well casing diameter

[X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC) : 4.83

Depth to Water (WL, ft. below TOC) : 4.18

Depth to free phase (FP, ft. below TOC) :

Number of borehole volumes to be purged

[ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type Disp.

[ ] Normal [ ] Pump \ Type

[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate Purge Rate .5 gpm

<.5 gal gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type Myron L / Hach Turb. / YSI DO

Time / Liters or ~~Gallons~~	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/			pre DO		-		
1240 / initial	6.8	16.6	-	1197 µs	-	>1000	strong organic odor
/					-		
/		well dewatered @ .125 gal			-		
/					-		
/					-		
1220 / 6/6/07	returned for sampling of dewatered wells						
/							
/	DTW: 4.78 - only drops of water recovered						
/	w/ Bailer - strong organic oder to water						
/							
/	unable to sample						
/							
/							
/							

Comments Purge water storage/disposal [ ] Drummed onsite [X] Other onsite Tank

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled /

Purging Equipment Pump - Type Bailer - Type Other

Sample Filtered: Yes / No Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BB3 | Well No.: BB3SW101

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Lovmish | Sampled by: P. Lovmish | Date: 6/6/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 3.61

Depth to Water (WL, ft. below TOC): 2.87

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp.

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: .5 gpm

2.5 gal gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type:

Time /	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/				pre 2.49				
1235 /	init.	5.9	17.7	—	490 µs	—	>1000	
/								
/								
1225 /	6/6/07	returned to sample dewatered well						
/		DTW: 3.20						
/		able to fill 1x500ml HNO3 Poly Field filtered						
/								
/								
/								
/								
/								
/								
/								
/								

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other onsite Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6/6/07 / 1230

Purging Equipment: Pump - Type: Bailer - Type: Disp. Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BB3SW101	1x500ml Poly HNO3	CRT	2162	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Baker Beach disturbed Area 3 | Well No.: BB3SW102

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: | Date: 6/4/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 3.17

Depth to Water (WL, ft. below TOC): 3.08

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/	~~* Well Dry No Purge or Sample For This Event.~~						
/							
/	* Insufficient Water To Purge Or Sample During This Event.						
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments | Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled /

Purging Equipment: Pump - Type | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Baker Beach Disturbed Area 3 | Well No.: BB3SW104

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: | Date: 6/14/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC) :

Depth to Water (WL, ft. below TOC) :

Depth to free phase (FP, ft. below TOC) :

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/	* Seep not running No purge or sample for this event						
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments | Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled /

Purging Equipment: Pump - Type | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Baker Beach Disturbed Area 3 | Well No.: BB3PZ101

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: | Date: 6/4/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 3.61

Depth to Water (WL, ft. below TOC): 2.87

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/							
/	~~* Insufficient Water Well~~ No (G)						
/	* Well Dry, No Purge or Sample for this event.						
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments | Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled /

Purging Equipment: Pump - Type | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Baker Beach Disturbed Area 3 | Well No.: BB3 PZ102

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: | Date: 6/14/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 7.00

Depth to Water (WL, ft. below TOC): Dry

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/	* Well Dry, No Purge or Sample for this event.						
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments | Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled /

Purging Equipment: Pump - Type | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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LANDFILL 10
APPENDIX SECTION A-15
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2007
Presidio of San Francisco, California

1.0 INTRODUCTION AND BACKGROUND

Landfill 10 is located in the southwestern portion of the Presidio within the former U.S. Public Health Services Hospital (PHSH) area (Figure 1). The site elevation is between approximately 110 and 190 feet above the PLLW datum (Figure A-15-1).

In 1874, the War Department established the area as a full-service U.S. Merchant Marine Hospital (USACE, 1990; ANL, 1989). Hospital operations were transferred in 1927 to the former PHSH. In the 1930s, the hospital was demolished and replaced by the existing site structure. Demolition debris from the first hospital is believed to have been placed in Landfill 10. The hospital was closed in 1981.

Since September 1994, monitoring wells at Landfill 10 have been analyzed for BTEX, TPH, dissolved metals, TDS and/or general chemistry parameters. A summary of analytical results are presented in Tables A-15-1 through A-15-3.

Beginning in the Fourth Quarter 2003, sampling frequency was reduced from quarterly to annual at Landfill 10 monitoring wells LF10GW01, LF10GW02, and LF10GW03. Beginning in the Third Quarter 2005, sampling frequency was reduced from quarterly to annual at the remaining Landfill 10 monitoring well (LF10GW100) and at the Landfill 10 seep (LF10SP01).

The *Five Year Review and Field Investigation Report for Landfills 8 and 10* (FYR) was submitted to the regulatory agencies and RAB in January 2004 (URS, 2004). A Feasibility Study (FS) for Landfills 8 and 10 has been prepared (EKI, 2005). Additionally, the Trust is currently writing a RAP (RAP4) and designing new remedial actions for the two landfill sites. RAP 4 is scheduled to be completed in 2008.

During the Fourth Quarter 2006 and the First Quarter 2007, the field team used a polyethylene container, typically used for general chemistry analyses, to transfer water from the seep (LF10SP01) to the TPHd and TPHfo sample bottles. This procedure does not comply with the FSP or surface water sampling SOP, and therefore the TPHd and TPHfo results from these quarters for LF10SP01 are not considered valid. First and Second Quarter 2007 TPHd and TPHfo results, along with additional sampling and analytical methods used to understand these results are discussed in Section 5.3 below.

2.0 SITE DESCRIPTION AND GEOLOGY

Landfill 10 is located in the Lobos Creek Groundwater Area of the Lobos Creek Groundwater Basin (Figure 1). The depth to groundwater ranges from approximately 5 to 43 feet bgs and groundwater flow follows the general topographic trend toward the southwest (Montgomery Watson, 1996b).

The approximately two-acre site consists of a former helipad and parking lot (Stollar, 1993). The site is underlain by landfill debris consisting mainly of sand with construction debris and varying amounts of rock, clay, and silt. The landfill debris is underlain by dune sand. Beneath the sand is the Colma Formation, which in turn, overlies the Franciscan Formation bedrock (Montgomery Watson, 1996b).

3.0 PUBLIC HEALTH SERVICE HOSPITAL RECORD OF DECISION

In early 1995, the U.S. Army completed the Record of Decision (ROD) for the Former PHSH Area (PHSH ROD). The PHSH ROD addressed three remediation sites within the PHSH Area, including Landfill 10. The PHSH ROD proposed both soil and groundwater sampling at Landfill 10 to confirm that the fill material does not pose any threat to human health and the environment. In addition, the PHSH ROD required the installation of two monitoring wells downgradient of the fill material (LF10GW01 and LF10GW02) and one monitoring well upgradient of Lobos Creek (LF10GW03). These monitoring well locations are presented on Figure A-15-1. Following the installation of the wells, the PHSH ROD required quarterly groundwater monitoring for a minimum of one year to confirm that chemicals are not leaching from the fill material to the groundwater (Montgomery Watson, 1996b).

4.0 GROUNDWATER MONITORING

Landfill 10 has four associated monitoring wells and one surface water seep (Figure A-15-1). During the First and Second Quarters 2007, groundwater elevations were measured at all four Landfill 10 monitoring wells (Tables 1A and Table 1B). Water-level meters were calibrated on 26 February and 4 June 2007. The calibration logs can be found in Appendix B. Groundwater elevation field forms can be found in Appendix C.

Groundwater samples were collected from Landfill 10 monitoring wells LF10GW01 through LF10GW03 and LF10GW100 and seep LF10SP01, during the First and Second Quarters 2007. All sampling, with the exception of the sampling conducted at LF10SP01 during the First Quarter 2007, was conducted in accordance with Tables 1A and 1B and the FSP during the First and Second Quarters 2007. During the Fourth Quarter 2006 and the First Quarter 2007, the field team used a polyethylene container, typically used for general chemistry analyses, to transfer water from the seep (LF10SP01) to the TPHd and TPHfo sample bottles. This procedure does not comply with the FSP or surface water sampling SOP. As discussed below in Section 5.3, the

possible effect of the improper sampling techniques on the results was evaluated by collecting samples by both methods and evaluating the results.

4.1 Groundwater-Level Measurements and Interpretation

Groundwater elevation measurements were collected on 26 February and 4 June 2007 at all Landfill 10 monitoring wells during the First and Second Quarters 2007, respectively. Groundwater elevations are summarized in Table A-15-4. Groundwater elevation maps showing groundwater contours and flow directions for Landfill 10 are included as Figures A-15-1 and A-15-2.

During the First Quarter 2007, groundwater elevations ranged from 101.65 to 139.89 feet above PLLW in LF10GW02 and LF10GW03, respectively (Figure A-15-1). During the Second Quarter 2007, groundwater elevations ranged from 101.63 to 138.50 feet above PLLW in LF10GW02 and LF10GW03, respectively (Figure A-15-2). In addition to the groundwater monitoring wells, the approximate location of LF10SP01 is posted on Figures A-15-1 and A-15-2. The groundwater elevations during the First and Second Quarters 2007 are consistent with historical elevations measured at Landfill 10.

Groundwater was determined to flow to the southwest following the general topographic trend during both quarters. The groundwater gradient was calculated to be approximately 0.11 feet per foot during both the First and Second Quarters 2007. Groundwater gradients and flow directions are consistent with previous findings.

4.2 Monitoring Well Purging and Sampling

Landfill 10 monitoring wells LF10GW01 through LF10GW03 and LF10GW100 and seep LF10SP01 were sampled during the First and Second Quarters 2007. First Quarter 2007 sampling took place on 27 and 28 February 2007. Second Quarter 2007 sampling took place on 5 June 2007. All purging and sampling, except for the sampling of LF10SP01 during the First Quarter 2007, was performed using methods shown in Tables 1A and 1B and in accordance with procedures described in the FSP (Treadwell & Rollo, 2001a).

During the Fourth Quarter 2006 and the First Quarter 2007, the field team used a polyethylene container, typically used for general chemistry analyses, to transfer water from the seep (LF10SP01) to the TPHd and TPHfo sample bottles. This procedure does not comply with the FSP or surface water sampling SOP, and therefore the TPHd and TPHfo results from these quarters within LF10SP01 are not considered valid.

Purge equipment, purging volumes, purge water parameters, and sampling equipment for each monitoring well and the surface water seep are described in the purge records at the conclusion of this section. Purge water was stored for future disposal in one of two 2,800-gallon aboveground polyethylene storage tanks, which are located at the Central Magazine.

4.3 Groundwater Analytical Program

All groundwater and surface water samples collected were submitted to the project laboratory for the analyses shown in Tables 1A and 1B. The appropriate sampling containers, preservatives, and maximum holding times for each analytical method are shown in Table 5. Sample containers collected from each well are described in the purge records at the conclusion of this section.

QA/QC samples were collected as part of this program. Section 6.2 of the main report discusses the QA/QC sampling and analysis performed for the First and Second Quarters 2007.

5.0 GROUNDWATER ANALYTICAL RESULTS

During the First Quarter 2007, Landfill 10 monitoring wells LF10GW01 through LF10GW03 and LF10GW100 and seep LF10SP01 were sampled and analyzed for general chemistry parameters, dissolved metals, TDS, dissolved oxygen, BTEX, MTBE, TPHg, TPHd, and TPHfo. In addition seep LF10SP01 was sampled for total metals. During the Second Quarter Landfill 10 monitoring wells LF10GW01 through LF10GW03 and LF10GW100 and seep LF10SP01 were sampled and analyzed for TPHg, TPHd, and TPHfo only.

The TPHfo standard currently being used is a TPH as motor oil standard, as defined by the Presidio QAPP, with a carbon range of C24-C36. Section 5.4.3.1 in the main text discusses the data compatibility issues associated with TPH analyses.

5.1 Dissolved Oxygen

Table A-15-1 presents dissolved oxygen results. During the First Quarter 2007, dissolved oxygen was measured in Landfill 10 monitoring wells at concentrations ranging from 0.42 to 2.75 mg/L within LF10GW02 and LF10GW01, respectively. Dissolved oxygen at seep LF10SP01 was measured at 3.07 mg/L during the First Quarter 2007.

During the Second Quarter 2007, dissolved oxygen was measured in Landfill 10 monitoring wells at concentrations ranging from 0.11 to 1.36 mg/L within LF10GW02 and LF10GW100, respectively. Dissolved oxygen at seep LF10SP01 was measured at 2.72 mg/L during the Second Quarter 2007.

The Second Quarter 2007 dissolved oxygen measurement within LF10GW01 and the Second Quarters 2007 dissolved oxygen measurement within LF10SP01 were new low concentrations at these locations.

5.2 General Chemistry Results

General chemistry results are presented in Table A-15-1. General chemistry results were generally within historical ranges within LF10GW01, LF10GW02, LF10GW03 and LF10SP01 during the First Quarter 2007. General chemistry results outside of historical bounds are discussed below.

Total alkalinity and bicarbonate were detected at new high concentrations of 530 mg/L within LF10GW100 during the First Quarter 2007. The previous high concentrations were both 510 mg/L.

All other general chemistry results detected at Landfill 10 during the First Quarter 2007 are generally consistent with historical values.

5.3 TPH Results

All Landfill 10 monitoring wells and the seep LF10SP01 were sampled for TPH during the First and Second Quarters 2007 (Table A-15-2). No TPH was detected above the laboratory's reporting limits for TPHg (<50 µg/L), TPHd (<50 µg/L) or TPHfo (<300 µg/L) within the monitoring wells during the First and Second Quarters 2007.

During the First Quarter 2007, TPHd and TPHfo were detected within seep LF10SP01 at concentrations of 22,000 and 14,000 µg/L, respectively. These concentrations were approximately ten times the levels detected in Fourth Quarter 2006. It was noted by the laboratory that the Fourth Quarter 2006 and First Quarter 2007 results did not exhibit a fuel pattern resembling the standard. Further investigation into the sampling protocols used during the Fourth Quarter 2006 and First Quarter 2007 revealed that samples from LF10SP01 were collected using a clean polyethylene container to transfer water from the sample location to laboratory-supplied sample containers. The sampling method used is not in accordance with the project SOPs. Therefore, additional sampling and analysis were performed, as discussed below.

Based on the inconsistent TPHd and TPHg results (when compared to historical data), and the inappropriate sampling for TPH methods used in the Fourth Quarter 2006 and First Quarter 2007, additional sampling was performed on 11 May 2007 between First and Second Quarters 2007. Primary samples were collected using the SOP method and a duplicate sample (DUP0511071A) was collected following the method used during the Fourth Quarter 2006 and the First Quarter 2007 (samples were collected in polyethylene container then transferred to appropriate laboratory-supplied containers), in an attempt to determine if the elevated TPHd and TPHfo detections were caused by the sampling method and use of the polyethylene container. TPHd was detected above the reporting limit in the May 2007 primary sample at a concentration of 88 µg/L, but was not detected in the May 2007 duplicate sample. TPHg and TPHfo were not detected within either the primary or duplicate samples.

During the Second Quarter 2007, LF10SP01 was sampled in accordance with the SOP. TPHd was detected above the reporting limit at a concentration of 210 µg/L. This detection was qualified by the laboratory as not matching the standard for TPHd. In an effort to identify the

compounds contributing to the TPHd quantification and the anomalous hydrocarbon pattern, the laboratory was asked to run the extract by GC/MS. Of significance in this qualitative analysis of the extract were three compounds: hexacosane (the surrogate used for the TPHd extraction), alpha-pinene, and aromadendrene. No other identifiable compounds were detected.

Alpha-pinene and aromadendrene are of a chemical class called terpenoids, which are naturally-occurring and are known to exist in eucalyptus oil. The sample location is adjacent to a large eucalyptus tree and numerous eucalyptus leaves present on the ground and also in the creek. Based on these results, it appears that the TPHd quantification may be a result of these naturally-occurring terpenoids present in eucalyptus leaves.

TPHg and TPHfo were not detected during the Second Quarter 2007 within LF10SP01. TPHd, TPHg, and TPHfo will continue to be sampled using the correct SOP method in future monitoring events.

5.4 BTEX and MTBE Results

Landfill 10 monitoring wells and seep LF10SP01 were sampled for BTEX and MTBE during the First Quarter 2007. BTEX and MTBE were not analyzed during the Second Quarter 2007. No BTEX compounds were detected in any of the samples analyzed from Landfill 10 during the First Quarter 2007 as presented in Table A-15-2.

MTBE was detected at a new high concentration of 10 µg/L within LF10GW100 during the First Quarter 2007, which is almost twice the previous high detection for this well. MTBE was also detected during the First Quarter 2007 at a concentrations of 2.9 and 2.2 µg/L in monitoring wells LF10GW01 and LF10GW03, respectively. MTBE continues to be sporadically detected in Landfill 10 monitoring wells.

A review of current and historical MTBE data and geographic distribution at Landfill 10 does not reveal clear trends in MTBE concentrations at Landfill 10. For example, MTBE has only been detected three times in monitoring well LF10GW02 and twice in surface water seep LF10SP01. MTBE has been detected four times in monitoring well LF10GW01, five times in LF10GW03, and six times in LF10GW100. The concentrations of MTBE detected in Landfill 10 monitoring wells range from 2.1 to 18 µg/L. MTBE does not currently have an identified source at Landfill 10. Additionally, MTBE is seldom detected in consecutive quarters within any of the Landfill 10 monitoring wells. MTBE detections at Landfill 10 may be caused by environmental factors such as runoff and the use of internal combustion engines, and may not represent a significant impact to groundwater.

BTEX/MTBE at Landfill 10 has been analyzed by EPA Method 8020/8021 through the Second Quarter 2007. This method uses a PID and has the potential for false detections. The PID responds to hydrocarbons of all types. Section 5.4.3.5 of the main text discusses this issue in

greater detail. Beginning with the Third Quarter 2007, all BTEX/MTBE analyses will be conducted by EPA Method 8260B rather than 8020/8021.

MTBE has also been sporadically detected within wells located at the Building 1065, Building 231/207 and Commissary/PX Areas. These sites are all located in areas where vehicular traffic is present. Additionally, BTEX/MTBE have historically been analyzed by EPA Method 8020/8021 at these sites. A review of MTBE detections associated with the groundwater monitoring program at the Presidio indicates that 122 of 137 detections (89%) were identified using EPA Method 8020/8021. The remaining detections were identified using EPA Method 8260B. Future BTEX/MTBE analyses will be conducted using EPA Method 8260 and results will be compared to historical EPA Method 8020/2021 results to determine if the previous detections were a result of the analytical method used. The change in laboratory method will be applied to these sites beginning with the Third Quarter 2007.

5.5 Total and Dissolved Metals and TDS Results

Total and dissolved metals and TDS results for Landfill 10 are presented in Table A-15-3. The table below summarizes new high and low dissolved metals and TDS analytical results for the First and Second Quarters 2007 when compared to historical data, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the commencement date of sampling, and on the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2007		Units
			Minimum	Maximum	Minimum	Maximum	
Metals							
LF10GW02	Iron	23/23	1,600	6,900	1,200	--	µg/L
	Manganese	23/23	710	2,900	610	--	µg/L
	Potassium	22/23	4,500	11,000	3,400	--	µg/L
LF10GW100	Barium	16/16	26	150	--	190	µg/L
	Vanadium	3/16	<10	11	--	13	µg/L
LF10SP01	Barium	7/7	10	16	--	19	µg/L
	Calcium	7/7	33,000	37,000	--	40,000	µg/L
	Iron	6/7	<100	1,200	--	1,500	µg/L
	Manganese	7/7	75	200	--	280	µg/L

The majority of dissolved metal results were within the range of previously detected concentrations for Landfill 10. The majority of new high and low concentrations of dissolved metals detected during the First Quarter 2007 were only slightly outside of historical ranges and are not considered significant. Significant detections are discussed below.

- Dissolved chromium was detected above its Landfill 10 cleanup level of 50 µg/L at a concentration of 59 µg/L in LF10GW01. Chromium has ranged in concentration within this well from 42 to 110 µg/L historically, with the majority of the detections in excess of the cleanup level.

No other dissolved metals results were detected above Landfill 10 cleanup levels.

Several total metals results collected from LF10SP01 were significantly higher than previous detected concentrations. Total aluminum, arsenic, barium, iron, manganese, nickel, and vanadium were all detected at concentrations during the First Quarter 2007, which are significantly higher than previous concentrations for this location.

6.0 CONCLUSIONS AND RECOMMENDATIONS

During the First Quarter 2007, TPHd and TPHfo were detected within seep LF10SP01 at concentrations of 22,000 and 14,000 µg/L, respectively. These concentrations were approximately ten times the levels detected in Fourth Quarter 2006. It was noted by the laboratory that the Fourth Quarter 2006 and First Quarter 2007 results did not exhibit a fuel pattern resembling the standard. Further investigation into the sampling protocols used during the Fourth Quarter 2006 and First Quarter 2007 revealed that samples from LF10SP01 were not collected in accordance with the project SOPs and therefore, additional sampling was performed on 11 May 2007 between First and Second Quarters 2007.

During the Second Quarter 2007, LF10SP01 was sampled in accordance with the SOP. TPHd was detected above the reporting limit at a concentration of 210 µg/L. This detection was qualified by the laboratory as not matching the standard for TPHd. In an effort to identify the compounds contributing to the TPHd quantification and the anomalous hydrocarbon pattern, the laboratory was asked to run the extract by GC/MS. Three compounds were identified in the extract by GC/MS: hexacosane (the surrogate used for the TPHd extraction), alpha-pinene, and aromadendrene. No other compounds were identified.

Alpha-pinene and aromadendrene are of a chemical class called terpenoids, which are naturally-occurring and are known to exist in eucalyptus oil. The sample location is adjacent to a large eucalyptus tree with numerous eucalyptus leaves on the ground and also in the creek. Based on these results, it appears that the TPHd quantification may be a result of these naturally-occurring terpenoids present in eucalyptus leaves.

MTBE was detected for the sixth time in monitoring well LF10GW100 during the First Quarter 2007 at a concentration of 10.0 µg/L. Clear trends in MTBE concentrations or geographic distribution have not been identified and this detection may not represent an impact to groundwater from Landfill 10.

No BTEX was detected above the laboratory's reporting limit within Landfill 10 monitoring wells during the First Quarter 2007.

The majority of dissolved metal results were within the range of previously detected concentrations for Landfill 10. Dissolved chromium within LF10GW01 was the only dissolved metal detected above its cleanup level during the First Quarter 2007.

Several total metals results for LF10SP01 were significantly higher than previously detected concentrations. Total aluminum, arsenic, barium, iron, manganese, nickel, and vanadium were all detected at concentrations during the First Quarter 2007, which are significantly higher than previous concentrations for this location.

The Trust is currently preparing RAP4 and designing new remedial actions for the Landfill 10 and 8 sites. Landfill 10 data will continue to be reviewed and sampling will be adjusted as necessary during preparation of the RAP4. RAP4 is scheduled to be completed in the summer of 2008.

Table A-15-1
Results of General Chemistry Analyses
Landfill 10
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	Field	E300.0/ E340.2	E300.0/ E353.2	E300.0/ E353.2	E353.2	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Cleanup Levels [2]		--	--	**250**	--	--	--	--	--	--
LF10GW01	06/05/07	NA	NA	NA	0.5	NA	NA	NA	NA	NA
	02/27/07	130	130	82	2.75	< 0.1	9.6	< 0.05	NA	50
	03/20/06	250	250	86	3.4	< 0.1	8.8	< 0.05	NA	49
	03/16/05	140	140	82	3.3	< 0.1	11	< 0.05	NA	49
	03/10/04	120	120	69	3.4	< 0.1	11	< 0.05	NA	46
	08/19/03	150	150	94	2.6	< 0.1	7.6 J-	< 0.05 UJ	NA	59
	06/10/03	170	170	97	3.9	< 0.1	9.9	< 0.05	NA	58
	03/19/03	190	190	79	3.2	< 0.1	8	< 0.05	NA	67
	12/05/02	150	150	94	2.3	< 0.1	7.3	< 0.05	NA	46
	09/04/02	140	140	96	1.4	0.28	8	< 0.05	NA	56
	06/04/02	150	150	96	3.3	0.25	7.5	< 0.05	NA	49
	03/11/02	160	160	86	4.1	0.18	6.9	< 0.05	NA	55
	11/30/01	160	160	98	4.5	0.11	6.8	< 0.05	NA	46
	08/31/01	150	150	95	4.4	0.19	7.1	< 0.05	NA	46
	05/18/01	150	150	91	4.7	0.12	7	< 0.05	NA	48
	02/19/97	153	153	77	NM	0.13	NA	NA	8.74	53.2
	12/13/96	161	161	88	NM	< 0.1	NA	NA	7.27	56.7
	09/05/96	172	172	88	NM	0.12	NA	NA	8.5	54.8
	03/22/96	162	162	81	NM	0.1	NA	NA	9.8	54
	12/04/95	170	170	89	NM	< 0.1	NA	NA	8.3	53
	09/26/95	174	174	87	NM	< 0.1	NA	NA	10	62
	06/09/95	172	172	87	NM	< 0.1	NA	NA	10	62
	03/21/95	160	160	77	NM	0.12	NA	NA	9.7	57
	12/13/94	161	161	84	NM	0.13	NA	NA	8.6	55
	09/09/94	175	175	143	NM	0.36	NA	NA	8.1	66

Table A-15-1
Results of General Chemistry Analyses
Landfill 10
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	Field	E300.0/ E340.2	E300.0/ E353.2	E300.0/ E353.2	E353.2	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Cleanup Levels [2]		--	--	**250**	--	--	--	--	--	--
LF10GW02	06/05/07	NA	NA	NA	0.11	NA	NA	NA	NA	NA
	02/27/07	300	300	44	0.42	0.1	< 0.05	< 0.05	NA	21
	12/06/06	380	380	47	0.5	0.12	< 0.05	< 0.05	NA	50
	03/17/05	230	230	77	0.1	< 0.1	< 0.05	< 0.05	NA	17
	03/10/04	240	240	76	0.07	0.1	< 0.05	< 0.05	NA	12
	08/19/03	390	390	40	0.4	0.12	0.45 J-	< 0.05 UJ	NA	94
	06/10/03	280	280	66	0.3	0.15	< 0.05	< 0.05	NA	44
	03/19/03	250	250	79	0.3	0.11	< 0.05	< 0.05	NA	12
	12/05/02	360	360	42	0.5	< 0.1	< 0.05	< 0.05	NA	71
	09/04/02	360	360	37	0.2	0.26	0.4	< 0.05	NA	100
	06/04/02	400	400	45	1.3	0.1	0.28	0.03 J	NA	130
	03/11/02	210	210	71	0.7	0.15	< 0.05	< 0.05	NA	16
	11/30/01	360	360	44	4	0.25	< 0.05 UJ	< 0.05 UJ	NA	160
	08/31/01	320	320	40	2.4	0.17	0.04 J	< 0.05	NA	120
	02/19/97	494	494	61	0.22	0.14	NA	NA	< 0.05	74
	12/13/96	440	440	37	NM	0.12	NA	NA	0.063	64
	09/05/96	547	547	36	NM	0.13	NA	NA	< 0.05	127
	08/30/96	NA	NA	NA	NM	NA	NA	NA	NA	NA
	03/22/96	524	524	57	NM	0.14	NA	NA	< 0.05	72
	12/04/95	453	453	47	NM	0.14	NA	NA	< 0.05	99
	09/25/95	481	481	55	NM	0.12	NA	NA	0.058	167
	06/08/95	615	615	56	NM	0.12	NA	NA	< 0.05	169
	03/16/95	588	588	51	NM	0.13	NA	NA	< 0.05	39
	12/12/94	606	606	46	NM	0.18	NA	NA	< 0.05	48
	09/12/94	592	592	47	NM	0.16	NA	NA	< 0.05	45

Table A-15-1
Results of General Chemistry Analyses
Landfill 10
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	Field	E300.0/ E340.2	E300.0/ E353.2	E300.0/ E353.2	E353.2	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Cleanup Levels [2]		--	--	**250**	--	--	--	--	--	--
LF10GW03	06/05/07	NA	NA	NA	0.72	NA	NA	NA	NA	NA
	02/27/07	260	260	68	0.92	< 0.1	8.5	< 0.05	NA	85
	03/17/06	250	250	64	0.77	< 0.1	8.1	< 0.05	NA	83
	03/16/05	260	260	63	0.6	< 0.1	7.1	< 0.05	NA	75
	03/18/04	240	240	67	1.4	< 0.1	7.4	< 0.05	NA	80
	08/20/03	300	300	63	2.1	< 0.1	7	< 0.05	NA	75
	06/10/03	240	240	66	1.7	NA	8.2	< 0.05	NA	81
	03/19/03	270	270	62	3.5	< 0.1	7.8	< 0.05	NA	74
	12/06/02	250	250	65	2.2	0.1	8.2	< 0.05	NA	79
	09/04/02	240	240	68	0.4	0.2	7.9	< 0.05	NA	80
	06/05/02	240	240	66	1.3	0.21	7.8	< 0.05	NA	80
	03/12/02	230	230	68	4.8	< 0.1 U	8.6	< 0.05	NA	82
	11/30/01	240	240	67	2.8	0.17	8.5 J	< 0.05 UJ	NA	78
	08/31/01	240	240	68	NM	0.16	8	< 0.05	NA	79
	05/17/01	240	240	68	3.3	0.21	8.2	< 0.05	NA	78
	02/18/97	239	239	60	NM	0.15	NA	NA	10	76
	12/12/96	243	243	61	NM	< 0.1	NA	NA	7.91	74
	09/04/96	237	237	64	NM	0.13	NA	NA	9.4	73
	06/06/96	244	244	58	NM	0.1	NA	NA	8.3	75
	03/21/96	255	255	52	NM	< 0.1	NA	NA	8	73
	12/01/95	242	242	46	NM	< 0.1	NA	NA	4.6	66
	09/26/95	253	253	48	NM	0.12	NA	NA	7.6	77
	06/09/95	259	259	37	NM	0.13	NA	NA	6.8	72
	03/16/95	252	252	37	NM	0.14	NA	NA	4.9	74
	12/13/94	290	290	37	NM	0.15	NA	NA	4.1	78
	09/09/94	387	387	219	NM	0.42	NA	NA	7.8	111

Table A-15-1
Results of General Chemistry Analyses
Landfill 10
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	Field	E300.0/ E340.2	E300.0/ E353.2	E300.0/ E353.2	E353.2	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Cleanup Levels [2]		--	--	**250**	--	--	--	--	--	--
LF10GW100	06/05/07	NA	NA	NA	1.36	NA	NA	NA	NA	NA
	02/28/07	530	530	55	1.99	< 0.1	40	< 0.05	NA	300
	03/17/06	450	450	44	0.89	< 0.1	36	< 0.05	NA	280
	05/26/05	400	400	31	0.9	0.16	29	< 0.05	NA	220
	03/17/05	360	360	19	0.4	0.1	29	< 0.05	NA	200
DUP0317051B	03/17/05	350	350	19	--	0.11	27	< 0.05	NA	200
LF10GW100CL	03/17/05	320	320	17.8	--	0.51	31	< 0.1 U	NA	206
	12/14/04	510	510	64	1.8	< 0.1	41	< 0.05	NA	290
	08/12/04	480	480	50	2.4	< 0.1	41	< 0.05	NA	280
	05/28/04	360	360	20	0.59	0.11	25	0.86	NA	210
DUP0528042A	05/28/04	380	380	20	--	0.11	25	0.86	NA	210
	03/18/04	340	340	19	1.3	0.11	27	< 0.05	NA	220
DUP0318043A	03/18/04	350	350	19	--	0.11	27	< 0.05	NA	220
	12/09/03	490	490	52	1.1	0.15	28	< 0.05	NA	260
	08/20/03	420	420	39	1.9	0.14	26	< 0.05	NA	250
	06/10/03	350	350	25	1.6	0.14	27	< 0.05	NA	220
	03/19/03	460	460	68	NM	0.12	42	< 0.05	NA	280
	12/23/02	510	510	110	NM	0.0075 J-	NA	0.000069	0.04	300
LF10122302-DUP1	12/23/02	510	510	110	--	0.0094 J-	NA	0.000057	0.03	310
LF10SP01	06/05/07	NA	NA	NA	2.72	NA	NA	NA	NA	NA
	02/27/07	240	240	69	3.07	< 0.1	0.24	< 0.05	NA	35
	12/06/06	250	250	75	NM	< 0.1	0.42	< 0.05	NA	36
	03/17/05	210	210	70	4.9	< 0.1	0.61	< 0.05	NA	24
	12/14/04	220	220	95	4.8	< 0.1	0.2	< 0.05	NA	28
	05/26/04	220	220	85	7.2	< 0.1	0.28	< 0.05	NA	22
	03/10/04	190	190	77	4.8	< 0.1	0.49	< 0.05	NA	24

Table A-15-1
Results of General Chemistry Analyses
Landfill 10
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	Field	E300.0/ E340.2	E300.0/ E353.2	E300.0/ E353.2	E353.2	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Cleanup Levels [2]		--	--	**250**	--	--	--	--	--	--
LF10SP01	12/03/03	240	240	90	6.9	< 0.1	0.16	< 0.05	NA	18
DUP1203031B	12/03/03	230	230	90	--	< 0.1	0.15	0.1	NA	18
LF10SP01CL	12/03/03	240	240	89.8	--	< 0.1	0.24	< 0.05	0.24	19
	08/19/03	230	230	87	4.5	< 0.1	0.2 J-	< 0.05 UJ	NA	21
	06/10/03	220	220	88	6.9	< 0.1	0.28	< 0.05	NA	22
	12/05/02	230	230	94	NM	0.11	NA	< 0.05	0.15	23

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Cleanup levels taken from Table 4-5 of the *Supplemental Information for The Draft Landfill 8 and 10 FS Report* (EKI, 2006).
mg/L - milligrams per liter
NA - Not analyzed
NM - Not measured
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-15-2
Results of BTEX, MTBE, and TPH Analyses
Landfill 10
Presidio of San Francisco, California

Well Name	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021	SW8020/ SW8021	SW8020/ SW8021	SW8020/ SW8021	SW8020/ SW8021	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [3]		**0.5**	**0.5**	**0.5**	**0.5**	**13**	**50**	**50**	**50**
LF10GW01	6/5/2007 [6]	NA	NA	NA	NA	NA	< 50	< 50	< 300
	02/27/07	< 0.5	< 0.5	< 0.5	< 1	2.9	< 50	< 50	< 300
	12/06/06	NA	NA	NA	NA	NA	< 50	< 50	< 300
	08/18/06	NA	NA	NA	NA	NA	< 50	< 50	< 300
	05/25/06	NA	NA	NA	NA	NA	< 50	< 50	< 300
	03/20/06	< 0.5	< 0.5	< 0.5	< 1	3.6 C	NA	NA	NA
	03/16/05	< 0.5	< 0.5	< 0.5	< 1	8	NA	NA	NA
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA
	08/19/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA
	06/10/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA
	03/19/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA
	12/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	09/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	03/11/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 63	< 380
	11/30/01	< 0.5	< 0.5	< 0.5	< 0.5	2.7	< 50	< 50	< 300
	08/31/01	< 0.5 R	< 0.5 R	< 0.5 R	< 0.5 R	< 2 R	< 50 R	< 50 [2]	< 300 [2]
	05/18/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	02/19/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50 (U15)	< 50	< 300
	12/13/96	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50	< 50	< 300
	09/05/96	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50	< 50	< 300
	03/22/96	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50	< 50	< 300
	12/04/95	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50	< 50	< 300
	09/26/95	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50	< 50	< 300
	06/09/95	< 5	<5	< 5	< 5	NA	< 50	< 50	NA
	03/21/95	< 5	<5	< 5	< 5	NA	< 50	< 50	NA
	12/13/94	< 5	<5	< 5	< 5	NA	< 50	< 50	NA
	09/09/94	< 5	<5	< 5	< 5	NA	< 50	**65** (J25)	NA
LF10GW02	06/05/07	NA	NA	NA	NA	NA	< 50	< 50	< 300
	02/27/07	< 0.5	< 0.5	< 0.5	< 1	< 2	< 50	< 50	< 300
	12/06/06	< 0.5	< 0.5	< 0.5	< 1	**18**	< 50	< 50	< 300
	03/17/05	< 0.5	< 0.5	< 0.5	< 1	2.8	NA	NA	NA
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA
	08/19/03	< 0.5	< 0.5	< 0.5	< 0.5	2.4	NA	NA	NA
	06/10/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA

Table A-15-2
Results of BTEX, MTBE, and TPH Analyses
Landfill 10
Presidio of San Francisco, California

Well Name	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021	SW8020/ SW8021	SW8020/ SW8021	SW8020/ SW8021	SW8020/ SW8021	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [3]		**0.5**	**0.5**	**0.5**	**0.5**	**13**	**50**	**50**	**50**
LF10GW02	03/19/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA
	12/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	09/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	03/11/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	11/30/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	08/31/01	< 0.5 R	< 0.5 R	< 0.5 R	< 0.5 R	< 2 R	< 50 R	< 50 [2]	< 300 [2]
	02/19/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50	< 50	NA
	12/13/96	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50	< 50	NA
	09/05/96	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50	< 50	NA
	03/22/96	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50	< 50	NA
	12/04/95	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50	< 50	NA
	09/25/95	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50	< 50	NA
	06/08/95	< 5	< 5	< 5	< 5	NA	< 50	< 50	NA
	03/16/95	< 5	< 5	< 5	< 5	NA	< 50	**79** (J25)	NA
	12/12/94	< 5	< 5	< 5	< 5	NA	< 50	< 50	NA
	09/12/94	**4.5** (J28)	**23**	**6.6**	**40**	NA	**1,500** (J25)	< 50	NA
LF10GW03	06/05/07	NA	NA	NA	NA	NA	< 50	< 50	< 300
	02/27/07	< 0.5	< 0.5	< 0.5	< 1	2.2	< 50	< 50	< 300
	12/06/06	NA	NA	NA	NA	NA	< 50	< 50	< 300
	08/17/06	NA	NA	NA	NA	NA	< 50	< 50	< 300
	05/25/06	NA	NA	NA	NA	NA	< 50	< 50	< 300
	03/17/06	< 0.5	< 0.5	< 0.5	< 1	2.4	NA	NA	NA
	03/16/05	< 0.5	< 0.5	< 0.5	< 1	8.5	NA	NA	NA
	03/18/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA
	08/20/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA
	06/10/03	< 0.5	< 0.5	< 0.5	< 0.5	2.8	NA	NA	NA
	03/19/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA
	12/06/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	09/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	06/05/02	< 0.5	< 0.5	< 0.5	< 0.5	3.5	< 50	< 50	< 300
	03/12/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	11/30/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	08/31/01	< 0.5 R	< 0.5 R	< 0.5 R	< 0.5 R	< 2 R	< 50 R	< 50 [2]	< 300 [2]

Table A-15-2
Results of BTEX, MTBE, and TPH Analyses
Landfill 10
Presidio of San Francisco, California

Well Name	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021	SW8020/ SW8021	SW8020/ SW8021	SW8020/ SW8021	SW8020/ SW8021	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [3]		**0.5**	**0.5**	**0.5**	**0.5**	**13**	**50**	**50**	**50**
LF10GW03	05/17/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	02/18/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50 (U15)	< 50	< 300
	12/12/96	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50	< 50	< 300
	09/04/96	< 0.5	**1.5**	< 0.5	< 0.5	NA	< 50	< 50	< 300
	06/06/96	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50	< 50	< 300
	03/21/96	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50	< 50	< 300
	12/01/95	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50	< 50	< 300
	09/26/95	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50	< 50	**440** (J25)
	06/09/95	< 5	< 5	< 5	< 5	NA	< 50	< 50	NA
	03/16/95	< 5	< 5	< 5	< 5	NA	< 50	< 50	NA
	12/13/94	< 5	< 5	< 5	< 5	NA	< 50	< 50	NA
	09/09/94	**0.74** (J28)	< 5	< 5	**5.9**	NA	**98** (J25)	**76** (J25)	NA
LF10GW100	06/05/07	NA	NA	NA	NA	NA	< 50	< 50	< 300
	02/28/07	< 0.5	< 0.5	< 0.5	< 1	10 C	< 50	< 50	< 300
	12/06/06	NA	NA	NA	NA	NA	< 50	< 50	< 300
	08/18/06	NA	NA	NA	NA	NA	< 50	< 50	< 300
	03/17/06	< 0.5	< 0.5	< 0.5	< 1	2.1	< 50	< 50	< 300
	05/26/05	< 0.5	< 0.5	< 0.5	< 1	< 2	< 50	< 50	**710** Y
	03/17/05	< 0.5	< 0.5	< 0.5	< 1	2.9	< 50	< 50	< 300
DUP0317051B	03/17/05	NA	NA	NA	NA	NA	NA	< 50	< 300
LF10GW100CL	03/17/05	< 1 U	< 1 U	< 1 U	< 2 U	< 5 U	< 50 U	54	< 300 U
	12/14/04	< 0.5	< 0.5	< 0.5	< 1	<2	< 50	< 50	< 300
	08/12/04	< 0.5	< 0.5	< 0.5	< 0.5	2.3 C	< 50	< 50	< 300
	05/28/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
DUP0528042A	05/28/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	03/18/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
DUP0318043A	03/18/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	12/09/03	< 0.5	< 0.5	< 0.5	< 0.5	5.1 C	< 50	< 50	< 300
	08/20/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	06/10/03	< 0.5	< 0.5	< 0.5	< 0.5	3.2	< 50	< 50	< 300
	03/19/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	12/23/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	**120** A-02	< 250
LF10122302-DUP1	12/23/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	< 50	< 250

Table A-15-2
Results of BTEX, MTBE, and TPH Analyses
Landfill 10
Presidio of San Francisco, California

Well Name	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021	SW8020/ SW8021	SW8020/ SW8021	SW8020/ SW8021	SW8020/ SW8021	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [3]		**0.5**	**0.5**	**0.5**	**0.5**	**13**	**50**	**50**	**50**
LF10SP01	06/05/07	NA	NA	NA	NA	NA	< 50	**210** YZ	< 300
	5/11/07 [4]	< 0.5	< 0.5	< 0.5	< 1	< 2	< 50	**88** Y Z	< 300
DUP0511071A	5/11/07 [4,5]	< 0.5	< 0.5	< 0.5	< 1	< 2	< 50	< 50	< 300
	2/27/07 [5]	< 0.5	< 0.5	< 0.5	< 1	< 2	< 50	**22,000** Y	**14,000** Y
	12/6/06 [5]	< 0.5	< 0.5	< 0.5	< 1	< 2	< 50	**2,700** Y J-	**1,100** Y
	03/17/05	< 0.5	< 0.5	< 0.5	< 1	11	< 50	< 50	< 300
	12/14/04	< 0.5	< 0.5	< 0.5	< 1	<2	< 50	< 50	< 300
	05/26/04	< 0.5	< 0.5	< 0.5	< 0.5	11 C	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	< 50	< 50	< 300
	12/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
DUP1203031B	12/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
LF10SP01CL	12/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 48	< 240
	08/19/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	06/10/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	**140** YZ	< 300
	12/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	< 50	< 250

Notes

1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.

2 - TPH analysis was not run using the silica gel cleanup method 3630A, although it was marked on the chain-of-custody.

3 - Cleanup levels taken from Table 4-5 of the *Supplemental Information for The Draft Landfill 8 and 10 FS Report* (EKI, 2006).

4 - Additional samples requested by The Presidio Trust between quarters, based on results considered inconsitent with historical TPHd and TPHfo results at this location and inappropriate sampling techniques used during the Fourth Quarter 2006 and the First Quarter 2007.

5 - These Lobos Creek samples were collected using a clean, polyethlylene container to transfer water from the sample location to laboratory supplied sample containers. This sampling method is not in accordance with the project *Standard Operating Procedures* .

6 - Alpha-pinene and aromadendrene which are terpenoids associated with naturally occurring eucalyptus oil were identified using AC/MS and may be contributing to the TPHd quantification.

µg/L - micrograms per liter

NA - Not analyzed

Y - Sample exhibits a fuel pattern that does not resemble the standard.

Z - Sample exhibits unknown single peak or peaks.

MTBE - Methyl tertiary butyl ether

BTEX - benzene, toluene, ethylbenzene, and xylenes

TPH - Total petroleum hydrocarbons

CL suffix denotes a quality control duplicate sample was sent to the control laboratory.

Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.

Table 11 in the main report identifies current and historical data qualifiers.

Table A-15-3
Results of Total and Dissolved Metals and TDS Analyses
Landfill 10
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7040/ SW7470A	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [3]		--	**6**	**10**	**1,000**	**4**	**1.1**	--	**50**	--	**11.8**	--	**3.2**	--	--	**0.012**	**100**	--	**5**	**4.1**	--	**1.7**	--	**106**	--
LF10GW01	02/27/07	< 100	< 1	< 5	46	< 2	< 1	13,000	**59**	< 10	< 1	< 100	< 3	60,000	< 10	< 0.2	< 20	< 500	< 5	< 1	41,000	< 1	< 10	< 20	430
	03/20/06	< 100	< 1	< 5	56	< 2	< 1	13,000	**79**	< 10	< 1	< 100	< 3	57,000	< 10	< 0.2	< 20	< 500	< 5	< 1	38,000	< 1	< 10	< 20	520
	03/16/05	< 100	< 1	< 5	48	< 2	< 1	13,000 J	**63**	< 10	< 1	< 100	< 3	50,000	< 10	< 0.2	< 20	< 500	< 5	< 1	35,000	< 1	< 10	< 20	470 J-
	03/10/04	< 100	1.1	< 5	43	< 2	< 1	11,000	42	< 10	< 1	< 100	< 3	46,000	< 10	< 0.2	< 20	< 500	< 5	< 1 UJ	37,000	< 1	< 10	< 20	340
	08/19/03	< 100	< 1	< 5	51	< 2	< 1	13,000	**77**	< 10	< 1	< 100	< 3	59,000	< 10	< 0.2	< 20	< 500	< 5	< 1 UJ	38,000	< 1	< 10	< 20 UJ	440
	06/10/03	< 100	3	< 5	50	< 2	< 1	14,000	**63**	< 10	1.5	< 100	< 3	62,000	< 10	< 0.2	< 20	< 500	< 5	< 1	39,000	< 1	< 10	< 20	460
	03/19/03	< 100 UJ	< 1	1	49	< 1	< 1	13,000 J	**54** J	< 1	< 1	< 100	< 3	77,000 J	< 10 UJ	< 0.2	12	< 500	< 5	< 1 UJ	59,000 J	< 1	< 10	< 10	440
	12/05/02	< 100	< 1	< 1	55	< 1	< 1	13,000	**81**	< 1	< 1	< 100	< 3	52,000	< 10	< 0.2	5.8	< 500	< 5	< 1 UJ	33,000	< 1	< 10	< 10	410
	09/04/02	< 100	< 1	1	380	< 1	< 1	14,000	**81 J**	< 1	< 1	< 100	< 3	63,000	< 10	< 0.2	7.7	< 500	< 5	< 1 UJ	40,000	< 1	< 10	95	430
	06/04/02	< 100	< 1	1.1	370	< 1	< 1	14,000	**84**	< 1	< 1	< 100	< 3	65,000	< 10	< 0.2	6.3	< 500	< 5	< 1	41,000	< 1	< 10	100	420
	03/11/02	< 100	< 1	1.4	320	< 1	< 1	15,000	**70**	< 1	< 1	< 100	< 3	65,000	< 10	< 0.2	6.9	< 500	< 5	< 1 UJ	46,000	< 1	< 10	64	430
	11/30/01	140	1.8	1.2	440	< 1	< 1	14,000	**91**	< 1	1.6	530	< 3	55,000	< 10	< 0.2	4.7	< 500	< 5	< 1 UJ	35,000	< 1	< 10	**110**	440
	08/31/01	170	2.5	1.4	250 J+	< 1	< 1	15,000	**91**	< 1	1.3	250	< 3	67,000	< 10	< 0.2	5.1	550	< 5	< 1 UJ	46,000	< 1	< 10	**150**	460
	05/18/01	< 100	1.9 J	1.2 J	390 J	< 1 UJ	< 1 UJ	14,000 J	**80 J**	< 1 UJ	1.1 J	< 100 UJ	< 3 UJ	67,000 b	< 10 UJ	< 0.2	8.3 J	< 500 UJ	< 5 UJ	< 1 UJ	43,000	< 1 UJ	< 10 UJ	**170** J	460
	02/19/97	< 100	< 5	< 5	45.9	< 4	< 2	14,100	**83**	< 10	< 10	< 100	< 3	60,800	< 10	< 0.2	< 20	< 5,000	< 5	< 2	42,100	< 2	< 10	< 20	496
	12/13/96	< 100	< 5	< 5	52.7	< 4	< 2	14,600	**80.8**	< 10	< 10	< 100	< 3	60,700	< 10	< 0.2	< 20	< 5,000	< 5	< 2	38,900	< 2	< 10	< 20	474
	09/05/96	< 100	< 5	< 5	52.6	< 2	< 0.5	15,500	**89.1**	< 10	< 1	< 100	1.7	64,900	< 10	< 0.2	6.5	< 5,000	< 5	< 0.5	41,800	< 2	< 10	< 20	483
	03/22/96	< 100	< 5	< 5	38.3	< 2	< 0.5	13,800	**71.5**	< 10	< 1	< 100	< 1	59,100	< 10	< 0.2	6	< 5,000	< 5	< 0.5	39,300	< 2	< 10	< 20	464
	12/04/95	< 100	< 5	< 5	50	< 2	< 0.5	16,300	**93**	< 10	< 1	< 100	< 1	66,100	< 10	< 0.2	< 5	< 5,000	< 5	< 0.5	38,500	< 2	< 10	26	515
	09/26/95	< 100	< 60	< 5	25	< 2	< 5	15,100	**89**	< 10	< 20	< 100	< 1	61,900	< 10	< 0.2	< 40	< 5,000	< 5	< 10	36,800	< 2	< 10	< 20	523
	06/09/95	< 100	< 60	< 5	19	< 2	< 5	16,200	**92**	< 10	< 20	< 100	< 3.2	68,800	< 10	< 0.2	< 40	< 5,000	< 5	< 10	42,300	< 5 (U27)	< 10	< 20	524
	03/21/95	< 100	< 60	< 5	11	< 2	< 5	16,700	**77**	< 10	< 20	< 100	< 3.2	63,300	< 10	< 0.2	< 40	< 5,000	< 5 (U27)	< 10	42,700	< 25 (U9)	< 10	< 20	473
	12/13/94	< 100	< 60	< 5	15	< 2	< 5	17,300	**95**	< 10	< 20	< 100	< 3.2	64,700	< 10	< 0.2	< 40	< 5,000	< 5 (U27, U9)	< 10	42,600	< 25 (U27, U9)	< 10	< 20	508
	09/09/94	< 100	NA	7.4	< 10	NA	NA	40,100	**110**	< 10	< 20	< 100	< 3.2	56,100	< 10	< 0.2	< 40	6,400	< 5	NA	68,700	< 25 (U27)	< 10	< 20	609
LF10GW02	02/27/07	< 100	< 1	< 5	55	< 2	< 1	69,000	< 10	< 10	< 1	1,200	< 3	33,000	610	< 0.2	< 20	3,400	< 5	< 1	29,000	< 1	< 10	< 20	410
	12/06/06	< 100	< 1	< 5	73	< 2	< 1	84,000	< 10	< 10	< 1	1,800	< 3	46,000	770	< 0.2	< 20	4,500	< 5	< 1	32,000 J	< 1	< 10	< 20	410 J-
	03/17/05	< 100	< 1	< 5	65	< 2	< 1	72,000 J	< 10	< 10	1.6	2,700	< 3	27,000	760	< 0.2	< 20	4,500	< 5	< 1	24,000	< 1	< 10	< 20	430 J-
	03/10/04	< 100	< 1	< 5	63	< 2	< 1	70,000	< 10	< 10	< 1	3,100	< 3	29,000	780	< 0.2	< 20	4,600	< 5	< 1 UJ	27,000	< 1	< 10	< 20	360
	08/19/03	< 100	< 1	< 5	88	< 2	< 1	89,000	< 10	< 10	< 1	2,400	< 3	36,000	820	< 0.2	< 20	5,300	< 5	< 1 UJ	64,000	< 1	< 10	< 20 UJ	570
	06/10/03	< 100	< 1	< 5	55	< 2	< 1	64,000	< 10	< 10	< 1	1,600	< 3	24,000	710	< 0.2	< 20	4,600	< 5	< 1	54,000	< 1	< 10	< 20	430
	03/19/03	< 100 UJ	< 1	< 1	64	< 1	< 1	94,000 J	1.1 J	< 1	< 1	2,100	< 3	37,000 J	920 J	< 0.2	2.6	4,900	< 5	< 1 UJ	36,000 J	< 1	< 10	< 10	420
	12/05/02	< 100	< 1	< 1	95	< 1	< 1	99,000	2.1	< 1	< 1	3,400	< 3	37,000	950	< 0.2	2.8	5,700	< 5	< 1 UJ	28,000	< 1	< 10	10	510
	09/04/02	< 100	< 1	< 1	410	**15**	< 1	110,000	< 1 UJ	< 1	< 1	2,900	< 3	43,000	1,100	< 0.2	2.9	6,000	< 5	< 1 UJ	36,000	< 1	< 10	78	540
	06/04/02	< 100	< 1	< 1	350	< 1	< 1	110,000	4.4	< 1	< 1	3,200	< 3	40,000	1,200	**0.22**	3.5	11,000	< 5	< 1	78,000	< 1	< 10	73	630
	03/11/02	< 100	< 1	1.1	380	< 1	< 1	57,000	< 1	< 1	< 1	2,500	< 3	26,000	830	< 0.2	2.6	4,600	< 5	< 1 UJ	30,000	< 1	< 10	**110**	370
	11/30/01	< 100	1.1	1	500	< 1	< 1	120,000	1.4	< 1	2	6,900	< 3	46,000	1,600	< 0.2	8.5	5,500	< 5	< 1 UJ	40,000	< 1	< 10	**170**	670
	08/31/01	< 100	2.1	1.3	250 J+	< 1	< 1	88,000	< 1	< 1	1	3,900	< 3	38,000	1,000	< 0.2	3.1	5,100	< 5	< 1 UJ	76,000	< 1	< 10	**210**	460
	02/19/97	< 100	< 5	< 5	105	< 4	< 2	150,000	< 10	< 10	< 10	5,030	< 3	56,800	1,770	< 0.2	< 20	5,830	< 5	< 2	33,500	< 2	NA	NA	759
	12/13/96	< 100	< 5	< 5	79	< 4	< 2	118,000	< 10	< 10	< 10	3,890	< 3	44,300	1,330	< 0.2	< 20	5,120	< 5	< 2	27,300	< 2	< 10	< 20	620
	09/05/96	< 100	< 5	< 5	120	< 2	< 0.5	161,000	< 1	< 10	< 1	4,050	< 1	62,400	1,800	< 0.2	11.7	6,800	< 5	< 0.5	35,500	< 2	< 10	< 20	812
	03/22/96	< 100	< 5	< 5	95.5	< 2	< 0.5	142,000	< 1	< 10	< 1	4,650	< 1	55,700	1,830	< 0.2	8.3	6,240	< 5	< 0.5	30,200	< 2	< 10	< 20	754
	12/04/95	< 100	< 5	< 5	93	< 2	< 0.5	140,000	< 1	< 10	< 1	4,000	< 1	55,700	1,800	< 0.2	< 5	6,300	< 5	< 0.5	26,500	< 2	< 10	< 20	735
	09/25/95	< 100	< 60	< 5	99	< 2	< 5	151,000	< 10	< 10	< 20	2,900	< 1	59,500	2,200	< 0.2	< 40	5,800	< 5	< 10	28,500	< 2	< 10	< 20	840
	06/08/95	< 100	< 60	< 5	140	< 2	< 5	198,000	< 10	< 10	< 20	5,700	< 3.2	88,300	2,900	< 0.2	< 40	6,400	< 5	< 10	43,000	< 5	< 10	< 20	959
	03/16/95	< 100	< 60	< 5	93	< 2	< 5	122,000	< 10	< 10	< 20	4,400	< 3.2	78,600	2,200	< 0.2	< 40	< 5,000	< 5	< 10	47,400	< 5 (U27)	< 10	< 20	697
	12/12/94	< 100	< 60	< 5	110	< 2	< 5	117,000	< 10	< 10	< 20	5,000	< 3.2	90,700	2,500	< 0.2	< 40	5,000	< 5 (U27)	< 10	45,400	< 5 (U27)	< 10	< 20	765
	09/12/94	< 100	NA	< 5	98	NA	NA	103,000	< 10	< 10	< 20	4,400	< 3.2	95,100	2,600	< 0.2	< 40	5,000	< 5	NA	49,600	< 25	< 10	57	769

Table A-15-3
Results of Total and Dissolved Metals and TDS Analyses
Landfill 10
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7040/ SW7470A	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [3]		--	**6**	**10**	**1,000**	**4**	**1.1**	--	**50**	--	**11.8**	--	**3.2**	--	--	**0.012**	**100**	--	**5**	**4.1**	--	**1.7**	--	**106**	--
LF10GW03	02/27/07	< 100	< 1	< 5	84	< 2	< 1	32,000	< 10	< 10	1.5	< 100	< 3	66,000	11	< 0.2	40	< 500	< 5	< 1	52,000	< 1	< 10	< 20	530
	03/17/06	< 100	< 1	< 5	84	< 2	< 1	28,000	< 10	< 10	1.1	< 100	< 3	57,000 J	< 10	< 0.2	37	< 500 UJ	< 5	< 1	51,000	< 1	< 10	< 20	600
	03/16/05	< 100	< 1	< 5	81	< 2	< 1	29,000 J	< 10	< 10	1.3	< 100	< 3	55,000	< 10	< 0.2	37	< 500	< 5	< 1	46,000	< 1	< 10	< 20	570 J-
	03/18/04	< 100	< 1	< 5	87	< 2	< 1	33,000	< 10	< 10	1.1	< 100	< 3	67,000	< 10	< 0.2	39	< 500	< 5	< 1 UJ	59,000	< 1	< 10	< 20	550 J
	08/20/03	< 100	1.7	< 5	81	< 2	< 1	30,000	< 10	< 10	**14**	230	< 3	64,000	< 10	**0.2**	40	< 500	< 5	< 1 UJ	50,000	< 1	< 10	< 20 UJ	560
	06/10/03	< 100	< 1	< 5	83	< 2	< 1	30,000	< 10	< 10	< 1	< 100	< 3	64,000	11	**0.41**	38	< 500	< 5	< 1	49,000	< 1	< 10	< 20	560
	03/19/03	< 100 UJ	< 1	< 1	83	< 1	< 1	39,000 J	2.9 J	< 1	< 1	< 100	< 3	86,000 J	< 10 UJ	**0.48**	38	< 500	< 5	< 1 UJ	71,000 J	< 1	< 10	< 10	490
	12/06/02	< 100	< 1	< 1	74	< 1	< 1	29,000	4.3	< 1	< 1	< 100	< 3	63,000	< 10 UJ	**0.35**	27	< 500	< 5	< 1 UJ	52,000	< 1	< 10	< 10	NA
	09/04/02	< 100	< 1	< 1	420	< 1	< 1	30,000	2.3 J	< 1	< 1	< 100	< 3	66,000	11	**0.72**	42	< 500	< 5	< 1 UJ	53,000	< 1	< 10	**110**	510
	06/05/02	< 100	< 1	< 1	90	< 1	< 1	31,000	5.7	< 1	< 1	110	< 3	66,000	20	**0.56**	41	< 500	< 5	< 1	53,000	< 1	< 10	< 10	490
	03/12/02	< 100	< 1	< 1	380	< 1	< 1	30,000	5.8	< 1	< 1	< 100	< 3	68,000	< 10	**0.54**	35	< 500	< 5	< 1 UJ	55,000	< 1	< 10	67	480
	11/30/01	< 100	3.1	< 1	500	< 1	< 1	31,000	9.2	< 1	1.8	540	< 3	67,000	< 10	< 0.2	29	< 500	< 5	< 1 UJ	53,000	< 1	< 10	**250**	550
	08/31/01	< 100	3.8	< 1	280 J+	< 1	< 1	30,000	7.7	< 1	3.3	< 100	< 3	72,000	< 10	**0.21**	35	< 500	< 5	< 1 UJ	61,000	< 1	< 10	**270**	540
	05/17/01	< 100	3	< 1	670	< 1	< 1	< 500 R	4.4 J	< 1	1.6	290	< 3	64,000	13	**0.33**	36	730 J	< 5	< 1	55,000	< 1	< 10	**220**	540
	02/18/97	< 100	< 5	< 5	87.2	< 4	< 2	31,200	< 10	< 10	< 10	< 100	< 3	67,800	< 10	**0.3**	38.1	< 5,000	< 5	< 2	58,000	< 2	< 10	< 20	569
	12/12/96	< 100	< 5	< 5	70.4	< 4	< 2	28,900	< 10	< 10	< 10	< 100	< 3	60,600	< 10	< 0.2	29.7	< 5,000	< 5	< 2	49,300	< 2	< 10	< 20	529
	09/04/96	< 100	< 5	< 5	75.9	< 2	< 0.5	29,400	3.4	< 10	< 1	< 100	2.1	63,400	< 10	**0.23**	39	< 5,000	< 5	< 0.5	55,100	< 2	< 10	< 20	524
	06/06/96	< 100	< 5	< 5	71.6	< 2	< 0.5	28,800	3.6	< 10	< 1	< 100	< 1	61,200	< 10	< 0.2	31.3	< 5,000	< 5	< 0.5	52,000	< 2	< 10	< 20	577
	03/21/96	< 100	< 5	< 5	64.9	< 2	< 0.5	29,700	2.1	< 10	< 1	< 100	< 1	60,500	< 10	**0.54**	31.2	< 5,000	< 5	< 0.5	53,800	< 2	< 10	< 20	518
	12/01/95	< 100	< 5	< 5	55	< 2	< 0.5	27,200	5.9	< 10	1.8	100	< 1	59,800	< 10	**0.3**	38	< 5,000	< 5	< 0.5	47,600	< 2	< 10	< 20	512
	09/26/95	< 100	< 60	< 5	41	< 2	< 5	26,200	< 10	< 10	< 20	< 100	1.4	55,700	< 10	< 0.2	< 40	< 5,000	< 5	< 10	46,200	< 2	< 10	< 20	528
	06/09/95	< 100	< 60	< 5	44	< 2	< 5	28,200	< 10	< 10	< 20	< 100	< 3.2	61,900	14	**1.5**	< 40	< 5,000	< 5	< 10	53,900	< 5	< 10	< 20	508
	03/16/95	< 100	< 60	< 5	18	< 2	< 5	29,500	< 10	< 10	< 20	< 100	< 3.2	60,000	54	< 0.2	< 40	< 5,000	< 5 (U27)	< 10	56,100	< 25 (U27)	< 10	55	498
	12/13/94	< 100	< 60	< 5	17	< 2	< 5	35,600	< 10	< 10	< 20	< 100	< 3.2	59,700	39	< 0.2	< 40	< 5,000	< 5 (U27)	< 10	62,300	< 5 (U27)	< 10	< 20	525
	09/09/94	< 100	NA	9.9	15	NA	NA	68,700	14	< 10	< 20	< 100	< 3.2	84,500	< 10	< 0.2	< 40	11,200	< 5 (U27)	NA	136,000	< 5 (U27)	< 10	< 20	989
LF10GW100	02/28/07	< 100	< 1	< 5	190	< 2	< 1	59,000	< 10	< 10	< 1	< 100	< 3	100,000	< 10	< 0.2	< 20	< 500	< 5	< 1	190,000	< 1	13	< 20	1,200
	03/17/06	< 100	< 1	< 5	130	< 2	< 1	49,000	< 10	< 10	< 1	< 100	< 3	87,000 J	16	< 0.2	< 20	< 500 UJ	< 5	< 1	180,000	< 1	< 10	< 20	1,140
	05/26/05	< 100	< 1	< 5	67	< 2	< 1	53,000	< 10	< 10	1.6	120	< 3	77,000 J	< 10	< 0.2 UJ	< 20	1,300	< 5	< 1	170,000 J	< 1	< 10	< 20	750
	03/17/05	< 100	< 1	< 5	47	< 2	< 1	40,000 J	< 10	< 10	1.7	120	< 3	55,000	< 10	< 0.2	< 20	1,300	< 5	< 1	140,000	< 1	< 10	< 20	820 J-
DUP0317051B	03/17/05	< 100	< 1	< 5	50	< 2	< 1	40,000 J	< 10	< 10	1.6	130	< 3	55,000	< 10	< 0.2	< 20	1,400	< 5	< 1	140,000	< 1	< 10	< 20	830 J-
LF10GW100CL	03/17/05	< 100 U	< 2 U	< 2 U	51.1	< 1 U	< 1 U	40,800	< 10 U	< 1 U	< 2 U	< 100 U	< 1 U	61,800	< 10 U	< 0.2 U	5.99	< 5,000 UN	< 2 U	< 1 U	157,000 J	< 1 U	< 10 U	< 20 U	817
	12/14/04	< 100	< 1	< 5	140	< 2	< 1	60,000 J	< 10	< 10	1.1	130	< 3	100,000	< 10	< 0.2	< 20	760	< 5	< 1	190,000	< 1	11	< 20	1,220
	08/12/04	< 100	< 1	< 5	150	< 2	< 1	54,000	< 10	< 10	2	< 100	< 3	94,000	33	< 0.2	< 20	810	< 5	< 1	170,000	< 1	11	< 20	1,300
	05/28/04	< 100	< 1	< 5	43	< 2	< 1	46,000	< 10	< 10	< 1	< 100	< 3	66,000	18	< 0.2	< 20	1,600	< 5	< 1	160,000	< 1	< 10	< 20	830
DUP0528042A	05/28/04	< 100	< 1	< 5	42	< 2	< 1	45,000	< 10	< 10	1.1	< 100	< 3	65,000	16	< 0.2	< 20	1,700	< 5	< 1	150,000	< 1	< 10	< 20	840
	03/18/04	< 100	< 1	< 5	40	< 2	< 1	47,000	< 10	< 10	1.6	100	< 3	68,000	< 10	< 0.2	< 20	1,600	< 5	< 1 UJ	160,000	< 1	< 10	< 20	830 J
DUP0318043A	03/18/04	< 100	< 1	< 5	40	< 2	< 1	45,000	< 10	< 10	2.1	< 100	< 3	67,000	< 10	< 0.2	< 20	1,700	< 5	< 1 UJ	160,000	< 1	< 10	< 20	890 J
	12/09/03	< 100	1.5	< 5	37	< 2	< 1	61,000	< 10	< 10	2.7	280	< 3	90,000	< 10	< 0.2	< 20	2,100	< 5	< 1 UJ	190,000	< 1	< 10	< 20	940
	08/20/03	< 100	< 1	< 5	26	< 2	< 1	55,000	< 10	< 10	< 1	450	< 3	84,000	< 10	< 0.2	< 20	2,000	< 5	< 1 UJ	180,000	< 1	< 10	< 20 UJ	1,090
	06/10/03	< 100	< 1	< 5	31	< 2	< 1	48,000	< 10	< 10	1.6	< 100	< 3	66,000	11	< 0.2	< 20	2,300	< 5	< 1	140,000	< 1	< 10	< 20	830
	03/19/03	< 100 UJ	< 1	2.2	47	< 1	< 1	83,000 J	4.9 J	< 1	1.5	< 100	< 3	140,000 J	16 J	< 0.2	4.9	1,900	< 5	< 1 UJ	260,000 J	< 1	< 10	< 10	1,170

Table A-15-3
Results of Total and Dissolved Metals and TDS Analyses
Landfill 10
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7040/ SW7470A	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [3]		**--**	**6**	**10**	**1,000**	**4**	**1.1**	**--**	**50**	**--**	**11.8**	**--**	**3.2**	**--**	**--**	**0.012**	**100**	**--**	**5**	**4.1**	**--**	**1.7**	**--**	**106**	**--**
LF10SP01 [2]	02/27/07	< 100	< 1	< 5	19	< 2	< 1	40,000	< 10	< 10	< 1	1,500	< 3	36,000	280	< 0.2	< 20	3,800	< 5	< 1	48,000	< 1	< 10	< 20	380
	12/06/06	< 100	< 1	< 5	15	< 2	< 1	33,000	< 10	< 10	< 1	670	< 3	37,000	150	< 0.2	< 20	4,400	< 5	< 1	48,000 J	< 1	< 10	< 20	350 J-
	03/17/05	< 100	< 1	< 5	12	< 2	< 1	34,000 J	< 10	< 10	< 1	450	< 3	35,000	170	< 0.2	< 20	3,000	< 5	< 1	45,000	< 1	< 10	< 20	360 J-
	12/14/04	< 100	< 1	< 5	14	< 2	< 1	37,000 J	< 10	< 10	< 1	290	< 3	41,000	170	< 0.2	< 20	3,400	< 5	< 1	57,000	< 1	< 10	< 20	430
	05/26/04	< 100	< 1	< 5	12	< 2	< 1	36,000	< 10	< 10	< 1	210	< 3	40,000	200	< 0.2	< 20	3,500	< 5	< 1	53,000	< 1	< 10	< 20	460
	08/19/03	< 100	< 1	< 5	16	< 2	< 1	37,000	< 10	< 10	< 1	1,200	< 3	42,000	200	< 0.2	< 20	3,100	< 5	< 1 UJ	58,000	< 1	< 10	< 20 UJ	360
	06/10/03	< 100	< 1	< 5	10	< 2	< 1	36,000	< 10	< 10	< 1	< 100	< 3	38,000	75	< 0.2	< 20	2,900	< 5	< 1	50,000	< 1	< 10	< 20	360
Total Metals [4]																									
LF10GW100	02/10/03	NA	< 60	8.7	47	< 1	< 10	NA	< 10	< 7	< 10	< 300	< 3	120,000	29	< 0.2	< 30	NA	< 5	< 7	NA	< 2	< 10	< 20	NA
DUP021003	02/10/03	NA	< 60	10	44	< 1	< 10	NA	< 10	< 7	< 10	< 300	< 3	120,000	26	< 0.2	< 30	NA	< 5	< 7	NA	< 2	< 10	< 20	NA
	12/23/02	NA	< 60	13 J-	29	< 1	< 10	NA	< 10	< 7	< 10	480	< 3	120,000	96	< 0.2	38	NA	5.6	< 7	NA	< 2	< 10	< 20	1,300
LF10122302-DUP1	12/23/02	NA	< 60	< 5 UJ	26	< 1	< 10	NA	12	< 7	< 10	< 300	< 3	130,000	60	< 0.2	< 30	NA	7.7	< 7	NA	< 2	11	< 20	1,300
LF10SP01	02/27/07	470 J+	< 1	32	430	< 2	< 1	74,000	< 10	< 10	16	110,000	11	41,000	3,400	< 0.2	37	4,100	< 5	< 1	49,000	< 1	77	67	NA
	12/06/06	< 100	< 1	9.6	60	< 2	< 1	39,000 J	< 10	< 10	3.1	22,000	4.8	39,000	360	< 0.2	< 20	4,300	< 5	< 1	50,000 J	< 1	13	< 20	NA
	03/17/05	< 100	< 1	< 5	14	< 2	< 1	33,000	< 10	< 10	< 1	1,000	< 3	35,000	180	< 0.2	< 20	3,000	< 5	< 1	46,000	< 1	< 10	< 20	NA
	12/14/04	100	< 1	6	23	< 2	< 1	39,000 J	< 10	< 10	1.3	3,400	6.8	44,000	260	< 0.2	< 20	3,400	< 5	< 1	59,000	< 1	< 10	< 20	NA
	05/26/04	< 100	< 1	9.4	40	< 2	< 1	39,000	< 10	< 10	2.9	13,000	12	40,000	540	< 0.2	< 20	3,400	< 5	< 1	52,000	< 1	< 10	22	--
	03/10/04	120	< 1	< 5	74	< 2	< 1	39,000	< 10	< 10	1.3	9,700	32	38,000	470	< 0.2	< 20	3,100	< 5	< 1	50,000	1.8	10	74	360
	12/03/03	< 100	< 60	7.7	50	< 2	< 5	35,000	< 10	< 20	< 10	12,000	4.4	42,000	1,400	< 0.2	< 20	3,600	< 5	< 5	58,000	< 5	< 10	< 20	420
DUP1203031B	12/03/03	< 100	< 60	< 5	18	< 2	< 5	31,000	< 10	< 20	< 10	2,500	< 3	40,000	240	< 0.2	< 20	3,500	< 5	< 5	56,000	< 5	< 10	140	350
LF10SP01CL	12/03/03	< 1000	< 5	12	34	< 1	< 1	41,000	< 10	< 7	< 10	7,900	3.2	39,000	560	< 0.2	< 10	3,800	< 5	< 1	57,000	< 2	< 10	< 20	390
	12/05/02	NA	< 60	< 5	40	< 1	< 10	NA	< 10	< 7	< 10	< 300	< 3	40,000	200	< 0.2	< 30	NA	< 5	< 7	NA	< 2	< 10	< 20	400

Notes
All metal results represent dissolved metals, unless indicated as "total" in the left-hand column, for total metal results.
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in their respective quarterly report.
2 - Beginning with the Second Quarter 2003, the Trust requested that all surface water seep samples be analyzed for total metals instead of dissolved metals. During Second Quarter 2003, the project laboratory filtered the metals sample for LF10SP01 and, therefore, the results are dissolved metals. Beginning with the Second Quarter 2004, the Trust requested that all surface water seep samples be analyzed for dissolved and total metals. Samples analyzed for total metals are not filtered in the field.
3 - Cleanup levels taken from Table 4-5 of the *Supplemental Information for The Draft Landfill 8 and 10 FS Report* (EKI, 2006).
4 - The cleanup levels listed for metals, do not apply to total metals.
Groundwater samples collected from monitoring wells LF10GW01 through LF10GW100 were field filtered and analyzed for dissolved metals, except for samples collected from LF10GW100 during December 2002 and February 2003, which were analyzed for total metals.
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.
µg/L - micrograms per liter
mg/L - milligrams per liter
NA - Not analyzed

Table A-15-4
Groundwater Elevation Summary
Landfill 10
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF10GW01	06/04/07	10.81	115.59	104.78	MW
	02/26/07	8.61	115.59	106.98	MW
	12/04/06	9.25	115.59	106.34	MW
	08/14/06	7.15	115.59	108.44	MW
	05/22/06	5.69	115.59	109.90	MW
	03/06/06	5.45	115.59	110.14	MW
	11/28/05	10.75	115.59	104.84	MW
	08/29/05	8.15	115.59	107.44	MW
	05/23/05	6.60	115.59	108.99	MW
	03/14/05	5.90	115.59	109.69	MW
	12/13/04	10.41	115.59	105.18	MW
	08/09/04	10.70	115.59	104.89	MW
	05/24/04	8.20	115.59	107.39	MW
	03/08/04	7.05	115.59	108.54	MW
	12/01/03	12.15	115.59	103.44	MW
	08/11/03	10.94	115.59	104.65	MW
	06/02/03	8.55	115.59	107.04	MW
	03/10/03	7.43	115.59	108.16	MW
	12/02/02	11.98	115.59	103.61	MW
	08/26/02	10.69	115.59	104.90	MW
	05/28/02	7.59	115.59	108.00	MW
	03/04/02	7.23	115.59	108.36	MW
	11/26/01	12.80	115.59	102.79	MW
	08/27/01	11.94	115.59	103.65	MW
	05/08/01	10.59	115.59	105.00	MW
LF10GW02	06/04/07	4.04	105.67	101.63	MW
	02/26/07	4.02	105.67	101.65	MW
	12/04/06	4.20	105.67	101.47	MW
	08/14/06	NM	105.67	NM	MW
	05/22/06	NM	105.67	NM	MW
	03/06/06	2.89	105.67	102.78	MW
	11/28/05	4.98	105.67	100.69	MW
	08/29/05	4.25	105.67	101.42	MW
	05/23/05	3.45	105.67	102.22	MW
	03/14/05	3.60	105.67	102.07	MW
	12/13/04	5.20	105.67	100.47	MW
	08/09/04	4.80	105.67	100.87	MW
	05/24/04	4.47	105.67	101.20	MW
	03/08/04	4.57	105.67	101.10	MW
	12/01/03	5.43	105.67	100.24	MW
	08/11/03	5.00	105.67	100.67	MW
	06/02/03	4.71	105.67	100.96	MW
	03/10/03	4.59	105.67	101.08	MW
	12/02/02	5.07	105.67	100.60	MW
	08/26/02	4.38	105.67	101.29	MW
	05/28/02	3.91	105.67	101.76	MW
	03/04/02	4.10	105.67	101.57	MW
	11/26/01	5.25	105.67	100.42	MW
	08/27/01	4.70	105.67	100.97	MW
	05/08/01	Not Located	105.67	--	MW
LF10GW03	06/04/07	42.30	180.80	138.50	MW
	02/26/07	40.91	180.80	139.89	MW
	12/04/06	42.00	180.80	138.80	MW
	08/14/06	40.35	180.80	140.45	MW
	05/22/06	36.35	180.80	144.45	MW
	03/06/06	37.74	180.80	143.06	MW
	11/28/05	42.85	180.80	137.95	MW
	08/29/05	41.4	180.80	139.40	MW
	05/23/05	38.75	180.80	142.05	MW
	03/14/05	37.73	180.80	143.07	MW
	12/13/04	43.5	180.80	137.30	MW
	08/09/04	41.98	180.80	138.82	MW

Table A-15-4
Groundwater Elevation Summary
Landfill 10
Presidio of San Francisco, California

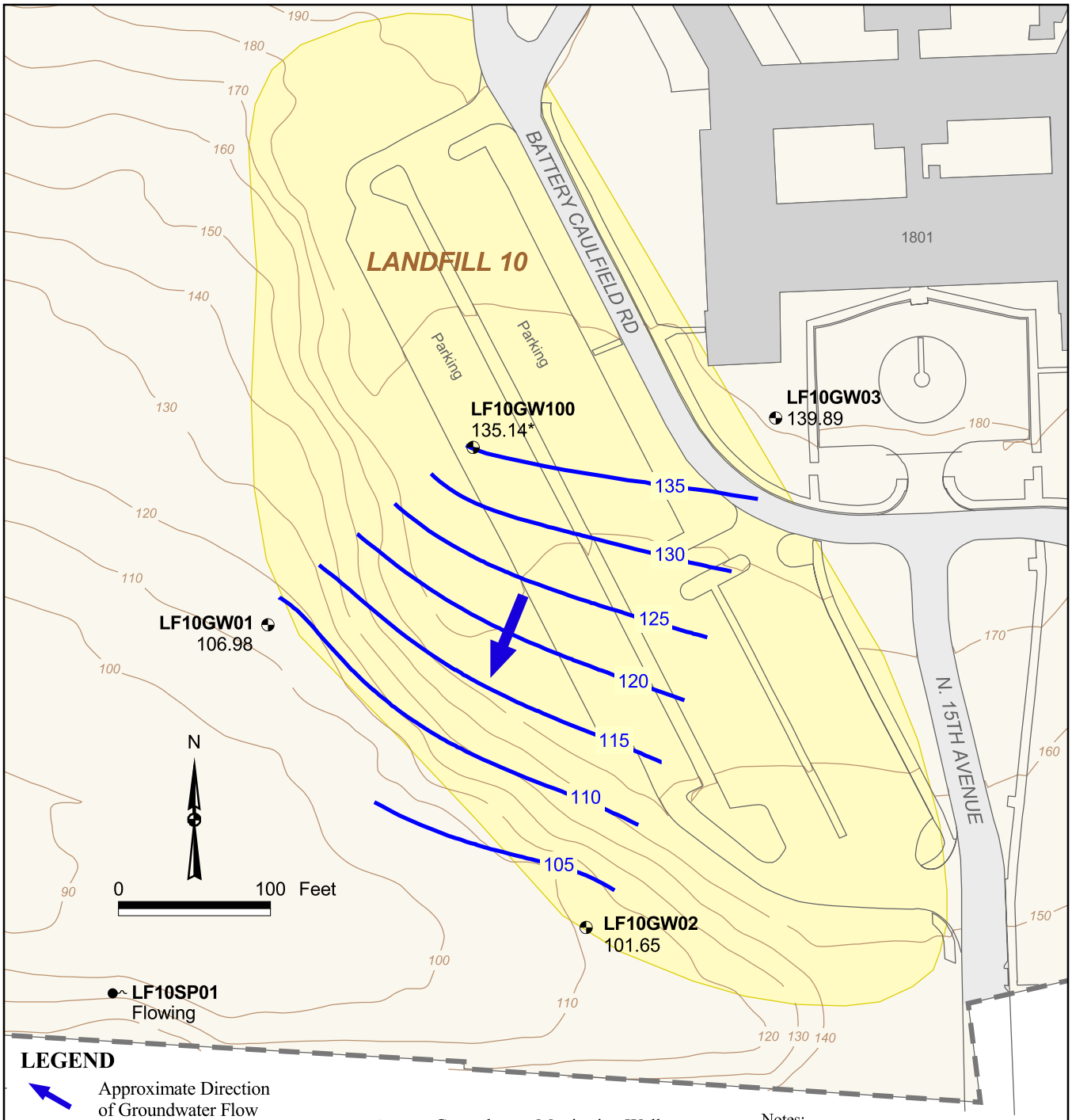
Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF10GW03	05/24/04	41.45	180.80	139.35	MW
	03/08/04	39.15	180.80	141.65	MW
	12/01/03	43.6	180.80	137.20	MW
	08/11/03	42.43	180.80	138.37	MW
	06/02/03	41.30	180.80	139.50	MW
	03/10/03	40.55	180.80	140.25	MW
	12/02/02	43.39	180.80	137.41	MW
	08/26/02	41.91	180.80	138.89	MW
	05/28/02	40.45	180.80	140.35	MW
	03/04/02	38.55	180.80	142.25	MW
	11/26/01	43.37	180.80	137.43	MW
	08/27/01	42.45	180.80	138.35	MW
	05/08/01	40.75	180.80	140.05	MW
LF10GW100 [2]	06/04/07	41.22	175.30	134.08	MW
	02/26/07	40.16	175.30	135.14	MW
	12/04/06	39.30	175.30	136.00	MW
	08/14/06	38.73	175.30	136.57	MW
	05/22/06	40.39	175.30	134.91	MW
	03/06/06	38.29	175.30	137.01	MW
	11/28/05	41.16	175.30	134.14	MW
	08/29/05	41.2	175.30	134.10	MW
	05/23/05	39.25	175.30	136.05	MW
	03/14/05	39.68	175.30	135.62	MW
	12/13/04	42.6	175.30	132.70	MW
	08/09/04	41.74	175.30	133.56	MW
	05/24/04	40.05	175.30	135.25	MW
	03/08/04	39.91	175.30	135.39	MW
	12/01/03	42.88	175.30	132.42	MW
	08/11/03	41.55	175.30	133.75	MW
	06/02/03	39.20	175.30	136.10	MW
	03/10/03	39.65	175.30	135.65	MW
LF10SP01	06/04/07	Flowing	--	NM	Seep
	02/26/07	Flowing	--	NM	Seep
	12/04/06	Flowing	--	109.0 [3]	Seep
	08/14/06	NM	--	NM	Seep
	05/22/06	NM	--	NM	Seep
	03/06/06	Flowing	--	109.0 [3]	Seep
	11/28/05	Flowing	--	109.0 [3]	Seep
	08/29/05	Not flowing	--	109.0 [3]	Seep
	05/23/05	Not flowing	--	109.0 [3]	Seep
	03/14/05	Flowing	--	109.0 [3]	Seep
	12/13/04	Flowing	--	109.0 [3]	Seep
	08/09/04	Not flowing	--	109.0 [3]	Seep
	05/24/04	Flowing	--	109.0 [3]	Seep
	03/08/04	Flowing	--	109.0 [3]	Seep
	12/01/03	Flowing	--	109.0 [3]	Seep
	08/11/03	Not flowing	--	109.0 [3]	Seep

Notes

1 - All depth to water measurements are an average of three measurements recorded in the field.

2 - The lid of monitoring well LF10GW100 has been surveyed by the Trust (175.60 feet PLLW). The elevation difference between the monitoring well lid and the top of casing was measured in the field and has been verified to be 0.30 feet. Therefore, the LF10GW100 top of casing elevation is approximately 175.30 feet PLLW.

3 - Approximate elevation.
MW- Monitoring well
NM - Not measured, location was not accessible
feet PLLW - feet above Presidio Lower Low Water vertical datum



LEGEND

- Approximate Direction of Groundwater Flow
- Groundwater Contour (Contour Interval : 5 ft)
- Presidio Boundary
- Topographic Contour (Contour Interval : 10 ft)
- 1801 — Building and Number
- Approximate Extent of Landfill

LF10GW03 139.89 — Groundwater Monitoring Well February 2007 Groundwater Elevations

LF10SP01 — Surface Water Seep at the headwater of Lobos Creek; location is approximate

* — Groundwater elevation used for contouring is considered approximate (refer to Table A-15-4 for details)

Notes:
Groundwater elevation data collected on 26 February 2007.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

LANDFILL 10 SITE PLAN AND 26 FEBRUARY 2007 GROUNDWATER ELEVATION MAP

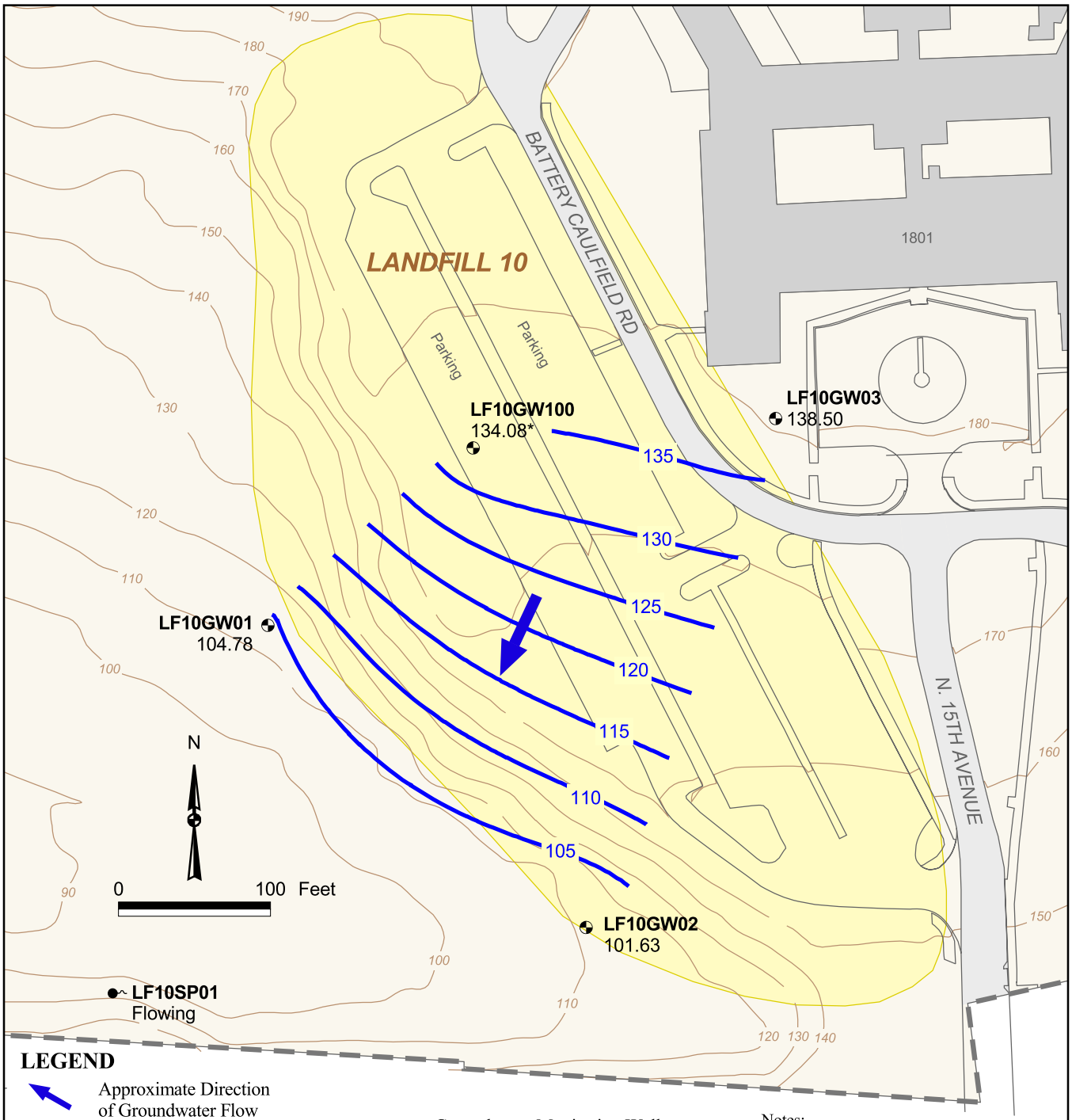
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THE PRESIDIO TRUST

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fax 561-5315
October 2007

FIGURE A-15-1

Treadwell & Rollo 2893.04\Q2_2007\A_15.APR 10/2007



LEGEND

- Approximate Direction of Groundwater Flow
- Groundwater Contour (Contour Interval : 5 ft)
- Presidio Boundary
- Topographic Contour (Contour Interval : 10 ft)
- 1801 — Building and Number
- Approximate Extent of Landfill

- **LF10GW03** 138.50 — Groundwater Monitoring Well June 2007 Groundwater Elevations
- **LF10SP01** — Surface Water Seep at the headwater of Lobos Creek; location is approximate
- * — Groundwater elevation used for contouring is considered approximate (refer to Table A-15-4 for details)

Notes:
Groundwater elevation data collected on 4 June 2007.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

LANDFILL 10 SITE PLAN AND 4 JUNE 2007 GROUNDWATER ELEVATION MAP

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October 2007

FIGURE A-15-2

Treadwell & Rollo 2893.04\G2_2007\A_15.APR 10/2007

First Quarter 2007

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: LF10 | Well No.: LF10GW01

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: B.Cornish | Sampled by: P.Cornish, B.Summerset | Date: 2/27/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 19.40

Depth to Water (WL, ft. below TOC): 8.60

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp.

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

4.5 gals ACTUAL PURGE VOLUME

Total Purge Time:

Recharge Rate: Poor | Purge Rate: .5gpm

DO YSI 550A

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron ultrameter / Hach 2100

Time	/ Liters or (Gallons)	pH	Temp (°C) °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1301	/ initial	7.65	14.1	pre 2.62	700.8µs	—	16.4	
1303	/ 1.5	7.44	14.3	—	701.5	—	9	
1306	/ 3	7.28	14.4	—	700.7	—	14	
1309	/ 4.5	7.11	13.8	—	700.6	—	16	
	/			post 2.79				
	/							
	/							
	/				post 1005 DO			
	/				purge			
	/							
	/							
	/							
	/							
	/							
	/							

Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other Onsite Tanks

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 2/27/07 / 1316

Purging Equipment: Pump - Type: | Bailer - Type: Disp. | Other:

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF10GW01	2x1L Amber NP	CET	2180	
	1x1L Poly NP			
	1x500ml Poly HNO3			
	3x40ml Vial HCl			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: LF10 | Well No.: LF10 GW02
Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: BR | Sampled by: PC | Date: 2/27/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 13.19
Depth to Water (WL, ft. below TOC): 4.05
Depth to free phase (FP, ft. below TOC):

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp.
[ ] Normal [ ] Pump \ Type:
[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):
[ ] Near Bottom Depth (ft):
[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:
Recharge Rate:
Purge Rate: 0.5 g/min

4.5 gals ACTUAL PURGE VOLUME

DO: YSI 550A

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron Ultrameter / Hach 2100

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1233 / initial	6.91	14.8	0.09 (pre)	675.4 MS		311	
1235 / 1.5	6.81	14.8		673.7		334	
1239 / 3.0	6.84	15.0		671.2		245	
1242 / 4.5	6.86	15.2		674.1		189	
/			post 0.42				DTW = 5.35
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other onsite drums

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 2-27-07 / 1245

Purging Equipment: Pump - Type: | Bailer - Type: disp. | Other:

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF10GW02	2x1L Amber NP	CAT	2180	
	1x1L Poly NP			
	1x500ml Poly HNO3			
	3x40ml Vial HCl			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: LF10 | Well No.: LF10 GW03

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BR | Sampled by: BR (B. Summerset) | Date: 2-27-07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 41'51.65

Depth to Water (WL, ft. below TOC): 43.76

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: disp. 1

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length: — x Water Volume/ft: — x No. Vols: — = CALCULATED PURGE VOLUME: — gals

Total Purge Time: —

Recharge Rate: — Purge Rate: 0.5/min

ACTUAL PURGE VOLUME: 4.5 gals

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: myron L. co./Hach / YSI DO

Time / Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm) (uS)	ORP (mV)	Turbidity (NTU)	Comments
1408 / initial	6.18	13.1	0.83 (pre)	863.9		21	
1411 / 1.5	6.22	14.0		876.7		18	
1414 / 3.0	6.23	14.2		863.4		19	
1417 / 4.5	6.19	14.4		882.4		18	
/		post = 0.92					
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments: — Purge water storage/disposal: [ ] Drummed onsite [X] Other: baker tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 2-27-07 / 1420

Purging Equipment: Pump - Type: — Bailer - Type: disp Other: —

Sample Filtered: (Yes) / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF10GW03	1X1 Liter poly	CT	2180	
	1X1 500 HNO3 poly			
	3X HCl voa			
	2X1 Liter Amber			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: LF10 | Well No.: LF10GW100

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BR | Sampled by: BR | Date: 2-27-07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 54.60

Depth to Water (WL, ft. below TOC): 40.18

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type

[X] Normal [X] Pump \ Type: 3" ES,

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

14.42 (Water Column Length) x 1.68 (Water Volume/ft) x 24.3 x 3 (No. Vols) = 72.7 gals CALCULATED PURGE VOLUME

Total Purge Time: 60.2 minutes

Recharge Rate: | Purge Rate: 5 gpm

33 gals ACTUAL PURGE VOLUME

YSI DO

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron L. Co./Hach

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm) µS	ORP (mV)	Turbidity (NTU)	Comments
/		Pre	1.10				
1508 / 24.5	6.75	12.1		1572		260	
/	Dewater @		33 gallons				DTW = 52.06
/							
844 / —	6.89			1981 (µS)		20	DTW = 40.57
/		Post	11.99				
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other baker tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 2-28-07 / 845

Purging Equipment: Pump - Type: | Bailer - Type: disp | Other:

Sample Filtered: (Yes) / No | Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF10GW100	500 x [illegible] poly	C++	2182	
	1x1 500 ml poly HNO3			
	3x HCl VOAs			
	2x1 liter NP poly	—		

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area LF10 Well No. LF10SP01

Project Number 2893 Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By B. Summerset Sampled by P. Cornish Date 2/27/07

WELL PURGING

PURGE VOLUME

Well casing diameter

[ ] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC) :

Depth to Water (WL, ft. below TOC) :

Depth to free phase (FP, ft. below TOC) :

Number of borehole volumes to be purged

[ ] 3 [X] Not Applicable [ ] Other

surface water

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type

[ ] Normal [ ] Pump \ Type

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1213 / -	6.731	12.9		672.1 µS		226	
/			3.07 (in cup)				
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments Purge water storage/disposal [ ] Drummed onsite [X] Other

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled 2-27-07 / 1215

Purging Equipment Pump - Type Bailer - Type disp bailer Other

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF10SP01	2x1L Amber NP	C&T	2180	
	2x500ml Poly HNO3			
	1x1L Poly NP			
	3x40ml Vial HCl			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Second Quarter 2007

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: LF10 | Well No.: LF10GWQ1

Project Number: 2693 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: Steve R. | Sampled by: R. Comish / S. Rose | Date: 6/5/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 19.09

Depth to Water (WL, ft. below TOC): 10.80

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp.
[ ] Normal [ ] Pump \ Type:
[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):
[ ] Near Bottom Depth (ft):
[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length ( ) x Water Volume/ft ( ) x No. Vols ( ) = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate:

Purge Rate: 0.5 gpm

4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron L / Hach Turb. / YSI DO

Time	/	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1225	/	1.5	7.6	16.1	pre-.88	714 MS	—	3.7	
1228	/	1.5	7.6	16.2	—	725	—	9.2	
1231	/	3	7.5	16.1	—	729	—	10.6	
1234	/	4.5	7.6	16.1	—	718	—	8.2	
	/				Post-.50		—		
	/								
	/				Post DTW:	13.07			
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6/5/07 / 1240

Purging Equipment: Pump - Type: Bailer - Type: Disposable Other:

Sample Filtered: Yes / (No) Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF10GWQ1	9x40ml VOAHCl	CAT	2156	MS/MSD
	3x1L Amber NP			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: LF10 | Well No.: LF10GW02
Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: P. Gornish | Sampled by: P. Gornish / S. Rose | Date: 6/5/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 13.12
Depth to Water (WL, ft. below TOC): 4.09
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp
[ ] Normal [ ] Pump \ Type:
[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):
[ ] Near Bottom Depth (ft):
[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:
Recharge Rate:
Purge Rate: 0.5 gpm

4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron L / Hach Turb / YSI DO

Time	/ Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
	/ ~~Initial~~			pre 0.70		—		
1153	/ initial	7.1	16.1	—	738 µS	—	35	
1158	/ 1.5	6.8	16.2	—	741	—	32	
1201	/ 3	6.9	16.3	—	743	—	32	
1204	/ 4.5	6.9	16.2	—	744	—	42	
	/			post 0.11				
	/							
	/							
	/		Post DTW 4.32'					
	/							
	/							
	/							
	/							
	/							
	/							

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other onsite Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6/5/07 ~~12~~ ~~AC~~ 1210

Purging Equipment: Pump - Type: Bailer - Type: Disp Other:
Sample Filtered: Yes / (No) Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF10GW02	1x1L Amber NP	CAT	2150	
	3x40ml Voa HCl			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell & Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 10 | Well No.: LF10GW03

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BP | Sampled by: BP | Date: 6-5-07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): —

Depth to Water (WL, ft. below TOC): 42.27

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type disp.

[ ] Normal [ ] Pump \ Type

[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft) 43'

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 12 min

Recharge Rate: Purge Rate: 0.5 gpm

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron Ultra, Horn turbid

Time	/ Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1000	/ Initial	6.4	17.2	1.00	862 µS		15	
1003	/ 1.5	6.3	17.5		872		13	DTW=43.07
1006	/ 3.0	6.3	17.5		880		14	DTW=43.35
1009	/ 4.5	6.3	17.5	0.72	887		13	DTW=43.41
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6-5-07 / 1015

Purging Equipment: Pump - Type: Bailer - Type: disp. Other:

Sample Filtered: Yes / (No) Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF10GW03	3 x 40 mL	C+T	2160	
	1 x 1 L	V		

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 10 | Well No.: LF10GW100

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: BP | Sampled by: BP | Date: 6-5-07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 54.54

Depth to Water (WL, ft. below TOC): 41.29

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type disposable

[X] Normal [ ] Pump \ Type

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[X] Near Bottom Depth (ft) 53'

[ ] Other

PURGE VOLUME CALCULATION

13.25 (Water Column Length) x 2.22 (Water Volume/ft) x 3 (No. Vols) = 88.3 gals CALCULATED PURGE VOLUME

29 gals ACTUAL PURGE VOLUME

Total Purge Time: 8 min

Recharge Rate:

Purge Rate: 5 gpm

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron Ultra, Horiba hybrid

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
934	/	Initial	6.6	17.6	1.03	1758 MS		13	
939	/	29.0	6.6	18.3		1866		17	DTW=52.80
	/	well	Dewatered	@	38.64 Mins				DTW=53.10
	/								
1355	/	—	6.9	18.5	1.36	1822		15	DTW=43.49
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other baker tank

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: 6-5-07 / 1355

Purging Equipment: Pump - Type: Bailer - Type: disp. Other:

Sample Filtered: Yes / (No) Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF10GW100	3 x 40mL VOA	CT	2160	
	1 x 1 L Amber			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell & Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area LF10 Well No. LF10SP01

Project Number 2893 Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By S. Cornish Sampled by D. Cornish Date 6/5/07

WELL PURGING

PURGE VOLUME

Well casing diameter
[ ] 2-inch [ ] 4-inch [X] Other surface

Well Total Depth (TD, ft. below TOC) :

Depth to Water (WL, ft. below TOC) :

Depth to free phase (FP, ft. below TOC) :

Number of borehole volumes to be purged
[ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE surface water

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate Purge Rate gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type Myron L Ultrameter / Hach Turb.

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1128 / -	7.7	14.9	2.72	724 µS	-	37	
/							
/	⇒ slight sheen on surface - possibly 'pollen sheen', not 'colorful' - NO odor						
/							
/							
/							
/							
/							
/							
/	sample containers placed into flow per SOP						
/							
/							
/							
/							
/							

Comments Purge water storage/disposal [ ] Drummed onsite [ ] Other —

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled 6/5/07 / 1135

Purging Equipment Pump - Type Bailer - Type Other surface collection

Sample Filtered: Yes / (No) Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF10SP01	3x40ml VOA HCl	CAT	2156	
	1x1L Amber			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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COMMISSARY/POST EXCHANGE AREA
APPENDIX SECTION A-16
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2007
Presidio of San Francisco, California

1.0 INTRODUCTION AND BACKGROUND

The Commissary/Post Exchange (PX) Area is located in the north-central portion of the Presidio (Figure 1), in the area surrounding the Commissary (Building 610) and the PX (Building 605). Site elevations range from approximately 9 to 15 feet above the PLLW datum and the ground surface slopes gently to the north-northwest, towards San Francisco Bay.

Prior to the construction of the Commissary and Crissy Field Tidal Marsh, the area was part of the Motor Pool used by the Army for vehicle fueling and maintenance and included aboveground gasoline storage tanks (ASTs), underground fuel and waste oil storage tanks (USTs), a pump shed and an auto shop. The area was also used for the loading and unloading of railroad tank cars and was crossed by now abandoned underground fuel distribution pipelines.

Three wells (610GW101 through 610GW103) were installed at the site in 2001 as part of an interim removal action. These wells have been sampled quarterly since August 2001. Samples from these wells were analyzed for TPH, BTEX and general water chemistry. Additional monitoring wells were installed as part of Site Investigation (SI) activities in 2002 and 2003. Metals and TDS analyses, sampling of the additional wells, and two surface water seep sampling locations (610SP01 and 610SP02) were added to the groundwater monitoring program beginning in the Third Quarter 2002.

To evaluate changing redox conditions, pH, temperature and oxygen-reduction potential (ORP) were added to the program in the First Quarter 2006. The *Technical Memorandum, Evaluation of Arsenic and Other Metals in Groundwater at Three Corrective Action Plan Sites, Presidio of San Francisco, San Francisco, California* (MACTEC, 2006), concluded that ORP is a good indicator for evaluating changing redox conditions. The pH, temperature and ORP data are presented in Table A-16-1 and will be used in the ongoing redox evaluations at CAP sites.

The Revised Final CAP (Treadwell & Rollo, 2006) was approved by the Trust, NPS and all stakeholders. Select Commissary/PX Area monitoring wells were added back into the groundwater monitoring program prior to the Second Quarter 2007, following Phase I implementation of the CAP.

Summaries of analytical results are presented in Tables A-16-1 through A-16-7 in this section.

2.0 SITE DESCRIPTION AND GEOLOGY

Based on historical groundwater level measurements, groundwater beneath the Commissary/PX Area does not appear to be tidally influenced and is typically present from approximately 3 to 6 feet bgs (Treadwell & Rollo, 2003b). Groundwater beneath the site generally flows northward towards the San Francisco Bay.

The Commissary and Crissy Field Tidal Marsh are located in an area of former tidal marshland. This marshland was filled in 1915 with hydraulically placed sand obtained from offshore sources (referred to as "the 1915 sand"). More recently, additional fill material was placed on top of the 1915 sand. The 1915 sand is laterally continuous over Crissy Field and locally ranges between 3 to 6 feet thick. The 1915 sand is underlain by native, highly plastic clay (Bay Mud) (Treadwell & Rollo, 2003b).

3.0 COMMISSARY/PX CORRECTIVE ACTION PLAN

The Revised Final CAP (Treadwell & Rollo, 2006) was approved by the Trust, NPS and all stakeholders.

Phase I of the CAP has recently been completed. The Phase I scope is outlined in *Phase I Corrective Action Work Plan, Commissary/PX Area, Presidio of San Francisco* (Geomatrix, 2006). Select Commissary/PX Area monitoring wells were added back into the monitoring program prior to the Second Quarter 2007, in accordance with the CAP.

4.0 GROUNDWATER MONITORING

Phase I of the Final CAP for the Commissary/PX Area was being implemented during the First Quarter 2007 and therefore, no groundwater elevations were measured or samples collected from the Commissary/PX Area monitoring wells, in accordance with the proposed sampling plan (Table 1). The Phase I Area is illustrated on Figure A-16-1. Phase I of the excavation remediation work at the Commissary/PX Area was substantially completed prior to Second Quarter 2007 and therefore, select monitoring wells were added back into the groundwater monitoring program. During implementation of the CAP, well 600GW101 was decommissioned and is no longer a part of the sampling program.

Groundwater elevation measurements and sampling resumed in accordance with the CAP, in the Second Quarter 2007.

Under the current conditions of the CAP, the Commissary/PX Area has 11 associated groundwater monitoring wells and two surface water seep locations (Figure A-16-1). Groundwater elevations were collected at all 11 site wells during the Second Quarter 2007. Seep 610SP01 was not flowing and seep 610SP02 was submerged during the Second Quarter 2007.

Water level meters were calibrated on 26 February and 4 June 2007. The calibration logs can be found in Appendix B. Groundwater elevation field forms can be found in Appendix C.

4.1 Groundwater-Level Measurements and Interpretation

No groundwater elevations were measured or samples collected from the Commissary/PX Area monitoring wells during the First Quarter 2007.

During the Second Quarter 2007, the Commissary/PX monitoring wells were gauged between 11:56 AM and 3:02 PM on 4 June 2007. Observed low tide on 4 June 2007 was at 8:48 AM with a magnitude of -0.72 feet above PLLW.

Although groundwater does not appear to be tidally influenced at the Commissary/PX Area, as a precaution an attempt was made during the Second Quarter 2007 to gauge the Commissary/PX monitoring well water levels within a period of approximately one hour so that any potential tidal effects on groundwater elevation were minimal. Predicted and observed tidal times and magnitudes during the First and Second Quarters 2007 are presented in Tables 2A and 2B and Figures 2A and 2B of the main text, respectively. Tidal predictions and observations are taken from the National Oceanic and Atmospheric Administration's (NOAA) Center for Operational Oceanographic Products and Services (CO-Ops) website. Second Quarter 2007 Commissary/PX Area groundwater elevations are presented in Table A-16-8.

During the Second Quarter 2007, groundwater elevations at the Commissary/PX Area ranged from 5.79 to 14.71 feet above PLLW in monitoring wells 600GW102 and 600GW105, respectively (Figure A-16-2).

Groundwater generally flowed north to northeast towards the Crissy Field Marsh and San Francisco Bay (Figures A-16-2 and A-16-3) during the Second Quarter 2007. Groundwater gradients in the Commissary/PX Area were estimated to be approximately 0.013 feet per foot during the Second Quarter 2007.

4.2 Monitoring Well Purging and Sampling

No groundwater elevations were measured or samples collected from the Commissary/PX Area monitoring wells during the First Quarter 2007, due to the implementation of the CAP.

Commissary/PX Area monitoring wells 600GW106, 610GW101 through 610GW103 were sampled during the Second Quarter 2007 on 6 and 7 June, in accordance with the proposed sampling schedule (Table 1B). Seep 610SP01 was not flowing during the Second Quarter 2007; however, samples were collected by Blaine Tech, as they have been historically, by digging a small hole and allowing groundwater to seep into the depression. The water was then collected with a disposable bailer and placed in laboratory-supplied containers for analysis. Commissary/PX Area monitoring well and seep locations are shown on Figure A-16-1.

All samples were collected using methods shown in Tables 1A and 1B and in accordance with procedures described in the FSP (Treadwell & Rollo, 2001a). Purge equipment, purging volumes, purge water parameters, and sampling equipment for each monitoring well are described in the purge records at the conclusion of this subsection. Purge water was stored, for future disposal, in one of two 2,800-gallon aboveground polyethylene storage tanks, which are located at the Central Magazine.

4.3 Groundwater Analytical Program

All groundwater samples collected were submitted to the project laboratory for the analyses shown in Table 1B of the main text. The appropriate sampling containers, preservatives, and maximum holding times for each analytical method are shown in Table 5. Sample containers used for each well are described in the purge records at the conclusion of this section.

QA/QC samples were collected as part of this program. Section 6.2 of the main report discusses the QA/QC sampling and analysis performed during the First and Second Quarters 2007.

5.0 GROUNDWATER ANALYTICAL RESULTS

During the Second Quarter 2007, groundwater samples collected from the Commissary/PX Area were measured for dissolved oxygen concentration and analyzed for general chemistry, dissolved metals, TDS, BTEX, MTBE, TPHg, TPHd, and TPHfo. Additionally, the sample from seep 610SP01 was analyzed for total metals.

The TPHfo standard currently being used is a TPH as motor oil standard, as defined by the QAPP, with a carbon range of C_{24} to C_{36}. Groundwater analytical results are presented in Tables A-16-1 through A-16-7.

5.1 Dissolved Oxygen

Dissolved oxygen results are presented in Table A-16-1. Dissolved oxygen meters are calibrated prior to sampling each day, as described in Section 5.4.1.1 of the main text.

During the Second Quarter 2007, the concentrations of dissolved oxygen within the Commissary/PX Area monitoring wells ranged from 0.57 to 1.99 mg/L within monitoring wells 610GW103 and 610GW101, respectively. The dissolved oxygen concentration within 610GW101 was a new high concentration for this location. The remaining dissolved oxygen concentrations measured during the Second Quarter 2007 were within the range of previously measured concentrations.

Dissolved oxygen was measured at surface water seep 610SP01 during the Second Quarter 2007 at a concentration of 1.92 mg/L, which is within the range of previously measured concentrations.

5.2 General Chemistry Results

General chemistry results are presented in Table A-16-1. General chemistry results at the Commissary/PX Area during the Second Quarter 2007 are generally within the range of concentrations previously detected at the site.

The following table summarizes new high and low general chemistry analytical results for the First and Second Quarters 2007 within the Commissary/PX Area when compared to historical data, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the date sampling commenced, and the number of duplicate analyses performed. Only the new high or new low concentrations are shown.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2007		Units
			Minimum	Maximum	Minimum	Maximum	
General Chemistry							
600GW106	Chloride	16/16	28	47	--	61	mg/L
	N as Nitrate	16/16	2.5	6.6	--	7.9	mg/L
	Sulfate	16/16	39	92	--	110	mg/L
610GW103	Sulfate	35/35	1.4	300	0.8	--	mg/L
610SP01	Alkalinity, Total	16/16	370	800	--	1,000	mg/L
	Bicarbonate	16/16	370	800	--	1,000	mg/L
	Sulfate	16/16	33	930	28	--	mg/L

The new high and low general chemistry concentrations reported during the Second Quarter 2007 are slightly higher or lower than previous maximum s or minimums and can be attributed to natural fluctuations and are not considered significant.

5.3 TPH Results

All Commissary/PX samples collected were analyzed for TPHg, TPHd, and TPHfo during the Second Quarter 2007. The results of the TPH analyses are included in Table A-16-2 and detected results are discussed below.

TPHg was detected at a concentration of 60 µg/L in monitoring well 610GW103. This concentration is within the historical range of concentrations detected at this location and is well below the CAP cleanup level of 770 µg/L for TPHg.

THPd was detected at a concentration of 130 µg/L within seep 610SP01, which is within historical range of concentrations detected at this location. TPHfo was detected for the first time within seep 610SP01 at a concentration of 490 µg/L. No other TPH detections were observed during the Second Quarter 2007. All detected TPH concentrations were well below CAP cleanup levels during the Second Quarter 2007.

TPH will continue to be monitored at the Commissary/PX Area during future sampling events in accordance with Final CAP.

5.4 BTEX and MTBE Results

Commissary/PX Area monitoring wells 600GW106 and 610GW101 through 610GW103 and seep 610SP01 samples were analyzed for BTEX and MTBE by EPA Method 8021B, in accordance with Table 1B, during the Second Quarter 2007. BTEX and MTBE results and cleanup levels are presented in Table A-16-3.

Toluene was the only BTEX compound detected at the Commissary/PX Area during the Second Quarter 2007. Toluene was detected for the first time within 610GW103 at a concentration of 0.66 µg/L and was also detected within the 610SP01 seep sample at a concentration of 0.55 µg/L during Second Quarter 2007. Both detected concentrations are below the CAP cleanup level for toluene of 150 µg/L.

MTBE was detected at a concentration of 2.6 µg/L in monitoring well 610GW101 during Second Quarter 2007. This well has previously had sporadic low level MTBE detections. Detected MTBE concentrations in monitoring well samples have been well below the 13 µg/L cleanup level.

BTEX and MTBE will continue to be monitored at the Commissary/PX Area during future sampling events in accordance with Final CAP.

5.5 Total and Dissolved Metals Results

Total and dissolved metals results are presented in Table A-16-5. The Commissary/PX Area wells and seep sampled during the Second Quarter 2007 were scheduled for aluminum, arsenic, iron and manganese analysis. The laboratory mistakenly analyzed the samples collected from 610GW101 and 610GW102 for additional metals and these additional analytical results have been added to Table A-16-5 at no additional cost to the Trust. The majority of dissolved metal concentrations were within historical ranges and were also below their applicable CAP-specified cleanup levels.

The table below summarize new high and low dissolved metal analytical results for the Second Quarter 2007 within Commissary/PX Area samples when compared to historical data, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the date of commencement of sampling, and the number of duplicate analyses performed. Only the new high or the new low is shown.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2007		Units
			Minimum	Maximum	Minimum	Maximum	
Metals							
600GW106	Manganese	7/7	600	1,300	--	1,600	µg/L
	Total Dissolved Solids	15/15	280	560	--	590	mg/L
610GW101	Iron	13/13	3,100	4,500	--	5,200	µg/L
	Magnesium	9/9	37,000	45,000	--	48,000	µg/L
	Manganese	12/12	240	390	--	430	µg/L
	Sodium	9/9	65,000	80,000	--	81,000	µg/L
610GW102	Magnesium	9/9	30,000	67,300	29,000	--	µg/L
610SP01	Arsenic	11/12	<5	19	--	28	µg/L

Significant dissolved metal concentrations are discussed below.

- Dissolved arsenic was detected at a new high concentration of 28 µg/L within 610SP01 during the Second Quarter 2007. Dissolved arsenic has been detected above the CAP-specified cleanup level (10 µg/L) within 610SP01 on five other occasions since monitoring began in the Fourth Quarter 2002.

Total metals were only analyzed within seep 610SP01 during the Second Quarter 2007. The total metals analyzed were aluminum, arsenic, iron, and manganese. All concentrations of total metals were significantly higher than the historical results; however, CAP-specified cleanup levels do not apply to total metals concentrations. Additionally, the results were significantly higher than their associated dissolved metals results because soil particles present in the samples likely contributed to the total metals concentrations.

6.0 GROUNDWATER REDOX EVALUATION

Modified redox diagrams were developed for monitoring wells 600GW106, 610GW101 through 610GW103 and seep 610SP01. The redox diagrams were generated using the Sequence™ program and concentrations of dissolved oxygen, nitrate, manganese, iron, sulfate and methane and are plotted on Figure A-16-3. The redox diagram consists of multiple axes, with each individual axis representing one of the above analytes and is associated with the seep location. The relative shape of each redox diagram represents an approximation of the redox state within the well studied. In general, the larger the polygon the more oxidizing the groundwater environment is at the well location, conversely, the smaller the polygon the more reducing the environment.

7.0 CONCLUSIONS & RECOMMENDATIONS

TPH concentrations were generally within historical ranges at the Commissary/PX Area during the Second Quarter 2007, with the exception of TPHfo which was detected for the first time within seep 610SP01 at a concentration of 490 µg/L. No TPH detections exceeded CAP cleanup levels.

Toluene was detected for the first time within 610GW103 at a concentration of 0.66 µg/L, during Second Quarter 2007. Toluene has not previously been detected at this location. No toluene or MTBE detections exceeded CAP cleanup levels.

The majority of dissolved metal concentrations were within historical ranges and were also below their applicable CAP-specified cleanup levels. Arsenic was the only metal detected above its CAP-specified cleanup level. Arsenic was detected at a new high concentration of 28 µg/L within 610SP01 during the Second Quarter 2007.

Total metals were only analyzed within seep 610SP01 during the Second Quarter 2007. All concentrations of total metals were significantly higher than the historical results; however, CAP-specified cleanup levels do not apply to total metals concentrations.

Groundwater monitoring at the Commissary/PX Area will continue to be conducted in accordance with the Revised Final CAP.

Table A-16-1
Results of General Chemistry Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	**Field**	**Field**	**Field**
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	mV	pH units	ºC
600GW101	05/23/06	660	660	90	0.24	0.37	< 0.05	< 0.05	1.1	0.14	-125.9	7.03	16.75
	03/08/06	610	610	74	1.19	0.35	< 0.05	< 0.05	11	0.13	-122.9	7.37	13.37
	12/01/05	660	660	99	0.3	0.42	< 0.05	< 0.05	0.63	< 0.04	NR	NR	NR
	09/01/05	680	680	97	0.4	0.38	< 0.05	< 0.05	< 0.5	< 0.04	NR	NR	NR
	06/01/05	800	800	96	0.3	0.49	< 0.05	< 0.05	0.65	0.07	NR	NR	NR
DUP0601053A	06/01/05	740	740	95	--	0.51	< 0.05	< 0.05	0.63	< 0.04	NR	NR	NR
	03/21/05	720	720	110	0.10	0.33	< 0.05	< 0.05	6.3	0.12	NR	NR	NR
	12/22/04	NA	NA	NA	0.17	NA	NA	NA	NA	NA	NR	NR	NR
	12/16/04	830	830	130	0.2	0.39	< 0.05	< 0.05	0.51	0.07	NR	NR	NR
	08/10/04	690	690	120	0.1	0.37	< 0.05	< 0.05	< 0.5	< 0.04	NR	NR	NR
	05/26/04	660	660	110	NM	0.42	< 0.05	< 0.05	0.91	NA	NR	NR	NR
	03/09/04	710	710	110	0.3	0.4	< 0.05	< 0.05	0.9	NA	NR	NR	NR
	12/02/03	660	660	98	0.7	0.44	< 0.05	< 0.05	< 0.5	NA	NR	NR	NR
	08/13/03	720	720	100	0.1	0.63	< 0.25 UJ	< 0.25 UJ	< 2.5	NA	NR	NR	NR
	06/09/03	680	680	97	0.4	0.57	< 0.05	< 0.05	< 0.5	NA	NR	NR	NR
	03/11/03	650	650	120	0.2	0.37	< 0.05	< 0.05	32	NA	NR	NR	NR
	12/04/02	670	670	100	0.8	0.46	< 0.05	< 0.05	0.83	NA	NR	NR	NR
	09/10/02	670	670	100	0.8	0.52	< 0.05	< 0.05	< 1	NA	NR	NR	NR
600GW102	03/15/06	450	450	330	1.59	0.16	0.48	< 0.05	22	< 0.04	-39	6.5	14.5
	04/06/05	550	550	150	1.2	0.18	0.46	< 0.05	35	< 0.04 UJ	NR	NR	NR
	03/09/04	630	630	230	0.7	0.16	0.55	< 0.05	24	NA	NR	NR	NR
	12/02/03	310	310	200	1	0.18	2	< 0.05	51	NA	NR	NR	NR
	08/13/03	570	570	870	1.1	< 1	< 0.5 UJ	< 0.5 UJ	59	NA	NR	NR	NR
	06/09/03	650	650	440	0.6	< 0.2	< 0.1	< 0.1	16	NA	NR	NR	NR
	03/11/03	480	480	170	0.5	0.2	0.11	< 0.05	26	NA	NR	NR	NR
	12/04/02	350	350	460	1	0.23	0.15	< 0.05	58	NA	NR	NR	NR
	09/10/02	400	400	220	0.7	0.37	1.1	< 0.05	38	NA	NR	NR	NR
600GW103	03/15/06	550	550	100	0.91	0.26	< 0.05	< 0.05	< 0.5	< 0.04	-100	6.6	11.1
	04/11/05	470	470	93	0.6	0.33	< 0.05	< 0.05	< 0.5	< 0.04	NR	NR	NR
	03/09/04	520	520	110	0.6	0.28	< 0.05	< 0.05	< 0.5	NA	NR	NR	NR

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Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	**Field**	**Field**	**Field**
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	mV	pH units	ºC
600GW103	12/02/03	540	540	100	1.8	0.27	< 0.05	< 0.05	< 0.5	NA	NR	NR	NR
	08/13/03	550	550	97	0.3	< 0.5	< 0.25 UJ	< 0.25 UJ	< 2.5	NA	NR	NR	NR
DUP0813033A	08/13/03	540	540	98	--	0.5	< 0.25 UJ	< 0.25 UJ	< 2.5	NA	NR	NR	NR
	06/09/03	550	550	130	0.7	0.36	< 0.05	< 0.05	< 0.5	NA	NR	NR	NR
	03/11/03	530	530	120	0.2	0.22	< 0.05	< 0.05	< 0.5	NA	NR	NR	NR
	12/04/02	500	500	97	0.9	0.22	< 0.05	< 0.05	2.9	NA	NR	NR	NR
	09/10/02	550	550	110	0.7	0.35	< 0.05	< 0.05	1.5	NA	NR	NR	NR
600GW104	03/15/06	470	470	22	2.07	0.35	0.1	< 0.05	110	< 0.04	-59	6.9	12.9
	04/11/05	480	480	24	0.9	0.39	0.08	< 0.05	160	< 0.04	NR	NR	NR
	03/09/04	290	290	43	2.1	0.39	< 0.05	< 0.05	110	NA	NR	NR	NR
	12/02/03	330	330	42	1.8	0.29	0.13 J-	< 0.05 UJ	71	NA	NR	NR	NR
DUP1202033A	12/02/03	310	310	43	--	0.3	0.2	< 0.05	72	NA	NR	NR	NR
	08/18/03	410	410	38	0.4	0.35	0.35	< 0.05	99	NA	NR	NR	NR
	06/05/03	350	350	48	0.6	0.29	0.69	< 0.05	130	NA	NR	NR	NR
	03/11/03	390	390	59	0.3	0.2	0.64	< 0.05	280	NA	NR	NR	NR
DUP0311032A	03/11/03	440	440	59	--	0.22	0.63	< 0.05	300	NA	NR	NR	NR
600GW104CL	03/11/03	400	400	54	--	0.24 J-	0.55	< 0.05 UJ	280	NA	NR	NR	NR
	12/04/02	420	420	55	2.2	0.18	< 0.05	< 0.05	170	NA	NR	NR	NR
	09/10/02	450	450	59	1.0	0.24	0.17	< 0.05	180	NA	NR	NR	NR
DUP0910021A	09/10/02	450	450	58	--	0.22	0.17	< 0.05	180	NA	NR	NR	NR
600GW105	05/23/06	370	370	86	0.24	0.29	0.79	< 0.05	56	< 0.04	-26.8	6.96	14.53
	03/08/06	320	320	84	0.4	0.25	1.3	< 0.05	68	< 0.04	-23.3	7.35	13
	12/01/05	380	380	96	0.5	0.31	0.9	< 0.05	68	< 0.04	NR	NR	NR
	09/01/05	320	320	98	0.4	0.27	0.9	< 0.05	65	< 0.04	NR	NR	NR
	06/01/05	710	710	89	0.7	< 5	< 2.5	< 2.5	60	< 0.04	NR	NR	NR
	03/22/05	310	310	86	0.2	0.25	1.9	< 0.05	67	< 0.04	NR	NR	NR
	12/22/04	NA	NA	NA	0.14	NA	NA	NA	NA	NA	NR	NR	NR
	12/16/04	350	350	88	0.2	0.27	1.6	< 0.05	69	< 0.04	NR	NR	NR
	08/12/04	340	340	93	0.6	0.28	1	< 0.05	61	< 0.04	NR	NR	NR

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Presidio of San Francisco, California

Location ID	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	**Field**	**Field**	**Field**
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	mV	pH units	ºC
600GW105	03/10/04	340	340	90	0.2	0.3	0.58	< 0.05	62	NA	NR	NR	NR
	12/02/03	320	320	86	0.7	0.28	1.4	< 0.05	63	NA	NR	NR	NR
	08/13/03	370	370	86	0.2	< 0.5	1.1 b,J-	< 0.25 UJ	64	NA	NR	NR	NR
	06/05/03	370	370	90	0.4	0.28	2.7	0.07	74	NA	NR	NR	NR
DUP0605033A	06/05/03	320	320	90	--	0.28	2.6	0.07	77	NA	NR	NR	NR
	03/12/03	290	290	83	0.3	0.25	2.5	< 0.05	76	NA	NR	NR	NR
	12/04/02	370	370	88	0.6	0.24	2.3	< 0.05	78	NA	NR	NR	NR
	09/11/02	260	260	99	1.0	< 0.1 U	3.8	< 0.05	79	NA	NR	NR	NR
600GW106	06/07/07	290	290	61	1.02	0.16	7.9 J+	< 0.05	110	NA	205.0	6.70	13.70
	05/23/06	230	230	37	0.17	0.17	4.8	0.11	86	0.07	-71.9	6.94	14.24
	03/08/06	210	210	47	1.61	0.16	5.6	0.06	92	< 0.04	124.9	6.94	12.76
	12/01/05	170	170	46	0.4	0.19	6.6	0.08	83	< 0.04	NR	NR	NR
	09/01/05	210	210	28	0.3	0.18	3.8	0.16	48	< 0.04	NR	NR	NR
	06/01/05	650	650	28	0.44	0.24	3.3	0.17	42	< 0.04	NR	NR	NR
	03/29/05	250	250	33	0.2	0.2	3.1	< 0.05	40	< 0.04	NR	NR	NR
	12/22/04	NA	NA	NA	0.19	NA	NA	NA	NA	NA	NR	NR	NR
	12/17/04	240	240	35	0.2	0.2	3.5	0.08	46	< 0.04	NR	NR	NR
	08/10/04	210	210	30	0.1	0.19	2.8	0.19	39	< 0.04	NR	NR	NR
	03/10/04	190	190	34	0.6	0.2	2.8	0.09	40	NA	NR	NR	NR
	12/02/03	210	210	36	0.7	0.21	3.1	0.15	50	NA	NR	NR	NR
	08/13/03	240	240	33	0.2	< 0.5	2.7 b,J-	< 0.25 UJ	48	NA	NR	NR	NR
	06/05/03	220	220	37	0.4	0.22	2.5	0.07	46	NA	NR	NR	NR
	03/12/03	240	240	39	0.2	0.19	3.3	0.09	44	NA	NR	NR	NR
	12/04/02	200	200	42	1.0	0.19	3.9	0.1	56	NA	NR	NR	NR
	09/11/02	250	250	44	0.9	< 0.1 U	2.7	0.089	44	NA	NR	NR	NR
600GW107	03/20/06	590	590	39	1.05	< 0.1	0.29	< 0.05	29	< 0.04 R	101.9	6.93	14.5
	04/11/05	550	550	40	0.3	0.11	0.24	< 0.05	46	< 0.04	NR	NR	NR
	03/10/04	590	590	43	0.3	0.13	< 0.05	< 0.05	14	NA	NR	NR	NR
	12/03/03	NA	NA	NA	0.7	NA	NA	NA	NA	NA	NR	NR	NR
	08/13/03	600	600	45	0.1	< 0.5	< 0.25 UJ	0.76 b,J-	3.2	NA	NR	NR	NR
	06/06/03	540	540	53	0.6	0.17	0.1	0.5	4.8	NA	NR	NR	NR
	03/11/03	520	520	54	1.6	0.13	0.05	< 0.05	12	NA	NR	NR	NR
	12/04/02	NA	NA	NA	0.9	NA	NA	NA	NA	NA	NR	NR	NR

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	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	**Field**	**Field**	**Field**
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	mV	pH units	ºC
600GW108	05/23/06	190	190	18	0.51	0.65	0.43	< 0.05	22	0.07	-104.2	7.06	5.49
	03/07/06	310	310	82	0.68	0.55	0.97	< 0.05	28	< 0.04	-50.5	7.64	12.94
DUP0307061B	03/07/06	300	300	74	--	0.54	1.2	< 0.05	33	< 0.04	NR	NR	NR
	11/30/05	200 J+	200	92	0.5	0.62	0.32	< 0.05	33	< 0.04	NR	NR	NR
DUP1130051A	11/30/05	180 J+	180	92	--	0.63	0.33	< 0.05	33	< 0.04	NR	NR	NR
600GW108CL	11/30/05	191	191	91.7	--	< 1 U	0.38	< 0.1 U	32.7	< 0.05 U	NR	NR	NR
	09/01/05	180	180	48	0.4	0.66	4	0.24	51	< 0.04	NR	NR	NR
	06/01/05	200	200	49	0.37	0.67	6.7	0.24	55	< 0.04	NR	NR	NR
	03/21/05	310	310	47	0.3	0.61	8.3	0.15	90	< 0.04	NR	NR	NR
DUP0321052B	03/21/05	260	260	46	--	0.64	8.3	0.15	88	< 0.04	NR	NR	NR
	12/22/04	NA	NA	NA	0.12	NA	NA	NA	NA	NA	NR	NR	NR
	12/17/04	170	170	51	0.2	0.8	7.8	0.08	52	NA	NR	NR	NR
	08/10/04	190	190	25	0.2	1.1	3.4	0.12	26	NA	NR	NR	NR
	05/26/04	110	110	35	0.78	1.1	4.8	< 0.05	38	NA	NR	NR	NR
	03/10/04	150	150	48	0.8	0.75	7.3	< 0.05	55	NA	NR	NR	NR
	12/03/03	150	150	46	0.7	0.82	7.4	< 0.05	52	NA	NR	NR	NR
	08/13/03	160	160	29	0.3	1.4	3.8 b,J-	< 0.25 UJ	35	NA	NR	NR	NR
	06/05/03	230	230	45	0.6	1	6.9	< 0.05	50	NA	NR	NR	NR
	03/12/03	260	260	46	1.0	0.75	7.5	< 0.05	52	NA	NR	NR	NR
	12/09/02	160	160	48	1.0	0.89	7.6	< 0.05	56	NA	NR	NR	NR
DUP1209022C	12/09/02	160	160	47	--	0.94	7.6	< 0.05	52	NA	NR	NR	NR
600GW108CL	12/09/02	160	160	46	--	1	7.2 J-	0.18 J-	55	NA	NR	NR	NR
	09/10/02	140	140	42	1.0	1.1	5.7	< 0.05	46	NA	NR	NR	NR
600GW109	03/14/06	380	380	44	0.43	< 0.1	0.52	< 0.05	41	< 0.04	-61	6.8	13.2
	04/01/05	290	290	39	0.7	< 0.1	0.74	< 0.05	47	< 0.04	NR	NR	NR
	03/09/04	300	300	42	0.4	< 0.1	0.26	< 0.05	51	NA	NR	NR	NR
	12/03/03	310	310	38	0.8	< 0.1	< 0.05	< 0.05	16	NA	NR	NR	NR
	08/13/03	440	440	55	0.2	< 0.5	< 0.25 UJ	< 0.25 UJ	20	NA	NR	NR	NR
	06/05/03	310	310	46	0.7	< 0.1	0.39	< 0.05	30	NA	NR	NR	NR
	03/11/03	430	430	51	0.4	< 0.1	1	< 0.05	44	NA	NR	NR	NR
	12/04/02	280	280	44	1.6	< 0.1	0.33	< 0.05	51	NA	NR	NR	NR
	09/10/02	290	290	45	1.0	0.12	0.54	< 0.05	50	NA	NR	NR	NR

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Location ID	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	**Field**	**Field**	**Field**
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	mV	pH units	ºC
610GW101	06/06/07	500	500	46	1.99	0.19	< 0.05	< 0.05	0.73	NA	-122.0	7.20	18.60
	05/23/06	460	460	43	0.4	0.2	< 0.05	< 0.05	0.63	< 0.04	-133	7.21	18.8
	03/07/06	400	400	32	0.9	0.19	< 0.05	< 0.05	7.5	< 0.04	-218.6	9.62	12.1
	12/01/05	500	500	46	0.79	0.18	< 0.05	< 0.05	4	< 0.04	NR	NR	NR
	08/31/05	490	490	43	0.2	0.18	< 0.05	< 0.05	2.6	< 0.04	NR	NR	NR
DUP0831051A	08/31/05	480	480	42	--	0.18	< 0.05	< 0.05	2.4	< 0.04	NR	NR	NR
	06/02/05	440	440	44	0.28	0.29	< 0.05	< 0.05	< 0.5	< 0.04	NR	NR	NR
	03/21/05	480	480	42	0.2	0.12	0.06	< 0.05	11	< 0.04	NR	NR	NR
DUP0321052A	03/21/05	420	420	43	--	0.12	< 0.05	< 0.05	10	< 0.04	NR	NR	NR
	12/21/04	NA	NA	NA	1.29	NA	NA	NA	NA	NA	NR	NR	NR
	12/15/04	390	390	37	0.2	0.17	< 0.05	< 0.05	10	< 0.04	NR	NR	NR
DUP1215041A	12/15/04	390	390	39	--	0.17	< 0.05	< 0.05	10	< 0.04	NR	NR	NR
610GW101CL	12/15/04	352	352	35.4	--	< 0.3 U	0.027 [2]		9.88	NA	NR	NR	NR
	08/10/04	490	490	47	0.1	0.19	< 0.05	< 0.05	4.9	< 0.04	NR	NR	NR
	05/26/04	450	450	52	0.62	0.22	< 0.05	< 0.05	1.2	NA	NR	NR	NR
	03/10/04	450	450	45	0.2	0.17	< 0.05	< 0.05	4.6	NA	NR	NR	NR
DUP0310043A	03/10/04	440	440	43	--	0.16	< 0.05	< 0.05	5.1	NA	NR	NR	NR
610GW101CL	03/10/04	430	430	45	--	0.18	< 0.1 UJ	< 0.05 UJ	5.3	NA	NR	NR	NR
	12/02/03	390	390	28	1.0	0.19	< 0.05	< 0.05	7.7	NA	NR	NR	NR
	08/14/03	560	560	46	0.3	0.25	< 0.05 UJ	< 0.05 UJ	3.1	NA	NR	NR	NR
DUP0814033A	08/14/03	510	510	48	--	0.28	< 0.05 UJ	< 0.05 UJ	2.5	NA	NR	NR	NR
610GW101CL	08/14/03	470	470	55	--	0.27 J+	< 0.1 UJ	< 0.05	2.1	NA	NR	NR	NR
	06/04/03	460	460	51	0.6	0.26	< 0.05	< 0.05	1.8	NA	NR	NR	NR
DUP0604033B	06/04/03	450	450	51	--	0.29	< 0.05	< 0.05	1.9	NA	NR	NR	NR
610GW101CL	06/04/03	450	450	58	--	0.27	< 0.1 R	< 0.05	1.6	NA	NR	NR	NR
	03/11/03	450	450	48	0.9	0.2	< 0.05	< 0.05	6.7	NA	NR	NR	NR
	12/03/02	490	490	57	1	0.2	< 0.05	< 0.05	< 0.5	NA	NR	NR	NR
	08/29/02	490	490	56	1.1	0.3	< 0.25	< 0.25	0.72	NA	NR	NR	NR
	05/29/02	460	460	52	0.8	0.3	< 0.05	< 0.05	9.3	NA	NR	NR	NR
	03/05/02	450	450	53	0.6	0.35	< 0.05	< 0.05	6.3	NA	NR	NR	NR
	12/03/01	450	450	48	0.6	0.29	< 0.5 UJ	< 0.5 UJ	50	NA	NR	NR	NR
	08/29/01	460	460	52	0.6	0.38	< 0.05	< 0.05	6.7	NA	NR	NR	NR

Table A-16-1
Results of General Chemistry Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	**Field**	**Field**	**Field**
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	mV	pH units	ºC
610GW102	06/06/07	360	360	50	0.78	0.29	0.29 U	< 0.05	1.2	NA	-92.30	7.06	17.88
	05/23/06	350	350	45	0.36	0.22	0.57	< 0.05	46	< 0.04	-101.7	7.21	17.6
	03/07/06	420	420	38	0.49	0.25	< 0.05	< 0.05	68	0.14	-114.9	7.98	13.91
	12/01/05	440	440	90	0.65	0.22	< 0.05	< 0.05	< 0.5	< 0.04	NR	NR	NR
	08/31/05	390	390	55	0.2	0.23	< 0.05	< 0.05	< 0.5	< 0.04	NR	NR	NR
	06/02/05	400	400	47	0.16	0.24	< 0.05	< 0.05	20	0.09	NR	NR	NR
	03/31/05	330	330	50	0.1	0.25	< 0.05	< 0.05	160	0.06	NR	NR	NR
DUP0331052C	03/31/05	320	320	49	--	0.26	< 0.05	< 0.05	160	0.08	NR	NR	NR
610GW102CL	03/31/05	354	354	46.4	--	0.35	< 0.1 U	< 0.02 U	134	< 0.04 U	NR	NR	NR
	12/21/04	NA	NA	NA	0.32	NA	NA	NA	NA	NA	NR	NR	NR
	12/15/04	450	450	63	0.2	0.2	< 0.05	< 0.05	39	0.14	NR	NR	NR
	08/11/04	360	360	51	0.1	0.23	< 0.05	< 0.05	< 0.5	< 0.04	NR	NR	NR
DUP0811041A	08/11/04	370	370	51	--	0.22	< 0.05	< 0.05	< 0.5	< 0.04	NR	NR	NR
610GW102CL	08/11/04	374	374	48	--	0.23	< 0.5 R [3]	< 0.5 R [3]	< 0.5 J	< 0.1	NR	NR	NR
	05/26/04	630	630	45	0.6	0.24	< 0.05	< 0.05	2.4	NA	NR	NR	NR
	03/09/04	420	420	57	0.2	0.23	< 0.05	< 0.05	51	NA	NR	NR	NR
	12/02/03	450	450	62	0.9	0.2	< 0.05	< 0.05	2	NA	NR	NR	NR
	08/18/03	400	400	66	0.2	0.27	< 0.05	< 0.05	2.2	NA	NR	NR	NR
	06/05/03	390	390	74	0.6	0.24	< 0.05	< 0.05	13	NA	NR	NR	NR
	03/11/03	350 J-	350 J-	61	1.8	0.21	< 0.05	< 0.05	66	NA	NR	NR	NR
DUP0311033A	03/11/03	370	370	64	--	0.18	< 0.05	< 0.05	67	NA	NR	NR	NR
	12/03/02	420	420	55	0.6	0.19	< 0.05	< 0.05	7.4	NA	NR	NR	NR
	08/29/02	360	360	49	0.9	0.23	< 0.25	< 0.25	19	NA	NR	NR	NR
	05/29/02	360	360	43	0.7	0.3	< 0.05	< 0.05	34	NA	NR	NR	NR
	03/05/02	420	420	54	0.5	0.31	< 0.05	< 0.05	37	NA	NR	NR	NR
	12/03/01	460	460	74	0.7	0.35	< 0.05 UJ	< 0.05 UJ	70	NA	NR	NR	NR
	08/29/01	420	420	57	0.4	0.34	< 0.05	< 0.05	39	NA	NR	NR	NR

Table A-16-1
Results of General Chemistry Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	**Field**	**Field**	**Field**
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	mV	pH units	ºC
610GW103	06/07/07	480	480	48	0.57	0.2	< 0.05	< 0.05	0.8 J+	NA	-98.3	7.10	19.2
	05/23/06	740	740	47	0.3	0.24	< 0.05	< 0.05	67	0.05	-79	7.16	18.7
DUP0523061A	05/23/06	410	410	47	NA	0.24	< 0.05	< 0.05	68	0.08	NA	--	--
	03/07/06	430	430	51	1	0.23	< 0.05	< 0.05	74	< 0.04	-74.6	7.78	14.7
DUP0307061A	03/07/06	420	420	50	--	0.23	< 0.05	< 0.05	74	< 0.04	NR	NR	NR
610GW103CL	03/07/06	398	398	54.5	--	< 1 U	< 0.02 U	< 0.02 U	75.1	< 0.05 U UJ	NR	NR	NR
	12/01/05	500	500	170	0.66	0.23	< 0.05	< 0.05	28	< 0.04	NR	NR	NR
	09/01/05	490	490	67	0.3	0.23	< 0.05	< 0.05	1.5	< 0.04	NR	NR	NR
DUP0901051A	09/01/05	460	460	67	--	0.24	< 0.05	< 0.05	1.4	< 0.04	NR	NR	NR
	06/02/05	470	470	120	0.2	0.26	< 0.05	< 0.05	55	0.06	NR	NR	NR
	03/22/05	400	400	93	0.7	0.22	0.08	< 0.05	140	< 0.04	NR	NR	NR
	12/21/04	NA	NA	NA	0.33	NA	NA	NA	NA	NA	NR	NR	NR
	12/16/04	530	530	270	0.2	0.2	< 0.05	< 0.05	47	< 0.04	NR	NR	NR
	08/10/04	480	480	72	0.2	0.2	< 0.05	< 0.05	5.5	< 0.04	NR	NR	NR
	05/26/04	430	430	60	0.5	0.23	< 0.05	< 0.05	26	NA	NR	NR	NR
	03/09/04	440	440	60	0.5	0.21	< 0.05	< 0.05	83	NA	NR	NR	NR
	12/03/03	510	510	78	1.1	0.16	< 0.05	< 0.05	13	NA	NR	NR	NR
DUP1203033A	12/03/03	510	510	77	--	0.19	< 0.05	< 0.05	14	NA	NR	NR	NR
610GW103CL	12/03/03	490	490	86	--	0.11	< 0.1	< 0.05	14.9	NA	NR	NR	NR
	08/18/03	470	470	64	0.2	0.28	< 0.05	< 0.05	9.6	NA	NR	NR	NR
DUP0818033A	08/18/03	470	470	67	--	0.28	< 0.05	< 0.05	10	NA	NR	NR	NR
	06/05/03	460	460	62	1	0.23	< 0.05	< 0.05	30	NA	NR	NR	NR
	03/11/03	490	490	76	0.6	0.26	< 0.05	< 0.05	93	NA	NR	NR	NR
	12/03/02	460	460	67	2.1	0.23	< 0.05	< 0.05	25	NA	NR	NR	NR
DUP1203022A	12/03/02	460	460	69	--	0.23	< 0.05	< 0.05	24	NA	NR	NR	NR
	08/29/02	450	450	61	1.8	0.32	< 0.25	< 0.25	18	NA	NR	NR	NR
	05/30/02	460	460	62	0.8	0.24	< 0.05	< 0.05	27	NA	NR	NR	NR
DUP0530022A	05/30/02	470	470	65	--	0.3	< 0.05	< 0.05	26	NA	NR	NR	NR
610GW103CL	05/30/02	450	450	57	--	< 1	< 1	< 1	26	NA	NR	NR	NR
	03/05/02	430	430	71	0.8	0.33	< 0.05	< 0.05	110	NA	NR	NR	NR
DUP0305023A	03/05/02	420	420	69	--	0.29	< 0.05	< 0.05	110	NA	NR	NR	NR
610GW103CL	03/05/02	410	410	65	--	< 1	< 1	< 1	110	NA	NR	NR	NR

Table A-16-1
Results of General Chemistry Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	**Field**	**Field**	**Field**
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	mV	pH units	ºC
610GW103	12/03/01	320	320	46	0.2	0.33	0.04 J,J	< 0.05 UJ	260	NA	NR	NR	NR
DUP1203011A	12/03/01	330	330	47	--	0.35	0.05 J,J	< 0.05 UJ	240	NA	NR	NR	NR
610GW103CL	12/03/01	310	310	49	--	< 1.0	< 1.0	< 1.0	300	NA	NR	NR	NR
	08/29/01	460	460	110	0.5	0.32	< 0.05	< 0.05	40	NA	NR	NR	NR
610SP01	06/07/07	1,000	1,000	280	1.92	0.3	< 0.05	< 0.05	28	NA	110.0	5.10	16.4
	08/17/06	410	410	6,000	1.37	< 1	< 0.5	< 1	830	0.22 J-	78.5	6.20	17.2
	03/21/06	470	470	99	1.27	0.24	< 0.05	< 0.05	62	< 0.04 R	-84	7.37	14.2
	09/01/05	440	440	7,300	0.4	< 1	< 0.5	< 1	930	< 0.04	NR	NR	NR
	06/01/05	430	430	350	1.6	0.21	< 0.05	< 0.05	130	< 0.04	NR	NR	NR
	12/21/04	NA	NA	NA	NM	NA	NA	NA	NA	NA	NR	NR	NR
	12/17/04	580	580	2,300	1.1	< 0.5	< 0.25	< 0.25	350	< 0.04	NR	NR	NR
	08/13/04	610	610	4,400	0.74	< 1	0.5	< 0.5	560	0.44	NR	NR	NR
	05/28/04	530	530	62	1.6	0.49	< 0.05	< 0.05	33	NA	NR	NR	NR
	03/16/04	460	460	79	1.45	0.26	0.16	< 0.05	160	NA	NR	NR	NR
	12/09/03	800	800	1,800	6.2	0.38	< 0.15	< 0.15	250	NA	NR	NR	NR
DUP1209031A	12/09/03	570	570	1,700	--	0.34	< 0.15	< 0.15	220	NA	NR	NR	NR
610SP01CL	12/09/03	620	620	1,280	--	0.23	< 0.1	< 0.05	225	NA	NR	NR	NR
	08/21/03	570	570	1,400	0.2	1.3	< 0.25	< 0.25	180	NA	NR	NR	NR
	06/11/03	380	380	5,800	0.8	< 2	< 1	< 1	780	NA	NR	NR	NR
	03/20/03	580	580	2,200	0.8	< 0.5	< 0.25	< 0.25	360	NA	NR	NR	NR
	12/11/02	370	370	5,500	0.8	< 1	< 0.5	< 0.5	820	NA	NR	NR	NR
	09/05/02	NA	NA	NA	0.4	NA	NA	NA	NA	NA	NR	NR	NR
610SP02	03/21/06	450	450	120	0.39	0.26	< 0.05	< 0.05	73	< 0.04 R	-84	7.29	13.7
	09/01/05	530	530	1200	0.8	0.21	< 0.1	< 0.15	140	< 0.04	NR	NR	NR
	06/01/05	510	510	170	1.7	0.33	< 0.05	< 0.05	37	< 0.04	NR	NR	NR
	12/21/04	NA	NA	NA	NM	NA	NA	NA	NA	NA	NR	NR	NR
	12/17/04	560	560	580	NM	0.29	< 0.05	< 0.05	89	< 0.04	NR	NR	NR
	08/13/04	420	420	12,000	0.84	< 2.5	< 1.3	< 1.3	1,700	0.08	NR	NR	NR
	05/28/04	620	620	220	NM	0.47	0.12	< 0.05	49	NA	NR	NR	NR
	03/16/04	490	490	480	0.99	0.44	< 0.05	< 0.05	130	NA	NR	NR	NR
	12/09/03	550	550	3,300	4.5	< 0.5	< 0.25	< 0.25	440	NA	NR	NR	NR
	08/21/03	450	450	7,700	0.4	< 2.5	< 1.3	< 1.3	1,100	NA	NR	NR	NR
	06/11/03	570	570	2,700	0.7	< 2	< 1	< 1	360	NA	NR	NR	NR

Table A-16-1
Results of General Chemistry Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	**Field**	**Field**	**Field**
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	mV	pH units	ºC
610SP02	03/20/03	460	460	3,700	0.9	< 1	< 0.5	< 0.5	500	NA	NR	NR	NR
	12/11/02	390	390	5,300	1	< 1	< 0.5	< 0.5	740	NA	NR	NR	NR
	09/05/02	NA	NA	NA	1	NA	NA	NA	NA	NA	NR	NR	NR

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - The QC laboratory reported results for Nitrogen as Nitrate and Nitrite combined.
3 - The QC laboratory reported results for Nitrogen as Nitrate and Nitrite combined. However, the combined Nitrogen as Nitrate and Nitrite result (< 0.5 mg/L) was rejected during data validation.
mg/L - milligrams per liter
NA - Not analyzed
NM - Not measured
"--" dissolved oxygen measurements were not taken for duplicate and quality control samples.
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-16-2
Results of TPH Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**770**	**880**	**1,200**
600GW101	05/23/06	390 Y	< 50	< 300
	03/08/06	140 Y	< 50	< 300
	12/01/05	270 Y	< 50	< 300
	09/01/05	290 Y	< 80	< 480
	06/01/05	270 Y	< 50	< 300
DUP0601053A	06/01/05	280 Y	< 50	< 300
	03/21/05	390 HY J+	< 50	< 300
	12/16/04	460 HY	< 50	< 300
	08/10/04	390 Y	< 50	< 300
	05/26/04	570 Y	< 50	< 300
	03/09/04	600 HY	< 50	< 300
	12/02/03	340 Y	< 50	< 300
	08/13/03	370 Y	< 50	< 300
	06/09/03	470 Y	< 50	< 300
	03/11/03	630 Y	< 50	< 300
	12/04/02	310 Y	< 50	< 300
	09/10/02	230 J-	< 100 UJ	< 300 UJ
600GW102	03/15/06	< 50	< 50	< 300
	04/06/05	< 50	< 50	< 300
	03/09/04	< 50	< 50	< 300
	12/02/03	< 50	< 50	< 300
	08/13/03	< 50	< 50	< 300
	06/09/03	< 50	< 50	< 300
	03/11/03	< 50	< 50	< 300
	12/04/02	< 50	< 50	< 300
	09/10/02	< 50 UJ	< 100 UJ	< 300 UJ
600GW103	03/15/06	< 50	< 50	< 300
	04/11/05	< 50	< 50	< 300
	03/09/04	< 50	< 50	< 300
	12/02/03	< 50	< 50	< 300
	08/13/03	< 50	< 50	< 300
DUP0813033A	08/13/03	< 50	< 50	< 300
	06/09/03	< 50	< 50	< 300
	03/11/03	< 50	< 50	< 300
	12/04/02	< 50	< 50	< 300
	09/10/02	< 50 UJ	< 100 UJ	< 300 UJ
600GW104	03/15/06	< 50	< 50	< 300
	04/11/05	< 50	< 50	< 300
	03/09/04	< 50	< 50	< 300
	12/02/03	< 50	< 50	< 300
DUP1202033A	12/02/03	< 50	< 50	< 300
	08/18/03	< 50	< 50	< 300
	06/05/03	< 50	< 50	< 300
	03/11/03	< 50	< 50	< 300
DUP0311032A	03/11/03	< 50	< 50	< 300
600GW104CL	03/11/03	< 50	< 50 UJ	< 250
	12/04/02	< 50	< 50	< 300
	09/10/02	< 50 UJ	< 100 UJ	< 300 UJ
DUP0910021A	09/10/02	< 50 UJ	< 100 UJ	< 300 UJ
600GW105	05/23/06	< 50	< 50	< 300
	03/08/06	< 50	< 50	< 300
	12/01/05	< 50	< 50	< 300
	09/01/05	< 50	< 50	< 300
	06/01/05	< 50	< 50	< 300
	03/22/05	< 50	< 50	< 300
	12/16/04	< 50	< 50	< 300
	08/12/04	< 50	< 50	< 300
	03/10/04	< 50	< 50	< 300
	12/02/03	< 50	< 50	< 300
	08/13/03	< 50	< 50	< 300

Table A-16-2
Results of TPH Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**770**	**880**	**1,200**
600GW105	06/05/03	< 50	< 50	< 300
DUP0605033A	06/05/03	< 50	< 50	< 300
	03/12/03	< 50	< 50	< 300
	12/04/02	< 50	< 50	< 300
	09/11/02	< 50 UJ	< 100 UJ	< 300 UJ
600GW106	06/07/07	< 50	< 50	< 300
	05/23/06	< 50	< 50	< 300
	03/08/06	< 50	< 50	< 300
	12/01/05	< 50	< 50	< 300
	09/01/05	< 50	< 50	< 300
	06/01/05	< 50	< 50	< 300
	03/29/05	< 50	< 50	< 300
	12/17/04	< 50	< 50	< 300
	08/10/04	< 50	< 50	< 300
	03/10/04	< 50	< 50	< 300
	12/02/03	< 50	< 50	< 300
	08/13/03	< 50	< 50	< 300
	06/05/03	< 50	< 50	< 300
	03/12/03	< 50	< 50	< 300
	12/04/02	< 50	< 50	< 300
	09/11/02	< 50 UJ	< 100 UJ	< 300 UJ
600GW107	03/20/06	< 50	< 50	< 300
	04/11/05	< 50	< 50	< 300
	03/10/04	< 50	< 50	< 300
	12/03/03	< 50	< 50	< 300
	08/13/03	< 50	170 HY	< 300
	06/06/03	< 50	< 50	< 300
	03/11/03	< 50	85 YH	< 300
	12/04/02	< 50	< 50	< 300
	09/11/02	< 50 UJ	NA	NA
600GW108	05/23/06	< 50	< 50	< 300
	03/07/06	< 50	< 50	< 300
DUP0307061B	03/07/06	< 50	< 50	< 300
	11/30/05	< 50	< 50	< 300
DUP1130051A	11/30/05	< 50	< 50	< 300
600GW108CL	11/30/05	< 50 U	< 50 U	< 300 U
	09/01/05	< 50	< 50	< 300
	06/01/05	< 50	< 50	< 300
	03/21/05	< 50	< 50	< 300
DUP0321052B	03/21/05	< 50	< 50	< 300
	12/17/04	< 50	< 50	< 300
	08/10/04	< 50	< 50	< 300
	05/26/04	< 50	< 50	< 300
	03/10/04	< 50	< 50	< 300
	12/03/03	< 50	< 50	< 300
	08/13/03	< 50	< 50	< 300
	06/05/03	< 50	< 50	< 300
	03/12/03	< 50	< 50	< 300
	12/09/02	< 50	< 50	< 300
DUP1209022C	12/09/02	< 50	< 50	< 300
600GW108CL	12/09/02	< 50	< 50	< 250
	09/10/02	< 50 UJ	< 100 UJ	< 300 UJ

Table A-16-2
Results of TPH Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**770**	**880**	**1,200**
600GW109	03/14/06	< 50	< 50	< 300
	04/01/05	< 50	< 50	< 300
	03/09/04	< 50	< 50	< 300
	12/03/03	< 50	< 50	< 300
	08/13/03	< 50	< 50	< 300
	06/05/03	< 50	< 50	< 300
	03/11/03	< 50	< 50	< 300
	12/04/02	< 50	< 50	< 300
	09/10/02	< 50 UJ	< 100 UJ	< 300 UJ
610GW101	06/06/07	< 50	< 50	< 300
	05/23/06	< 50	< 50	< 300
	03/07/06	< 50	< 50	< 300
	12/01/05	< 50	< 50	< 300
	08/31/05	< 50	< 50	< 300
DUP0831051A	08/31/05	< 50	< 50	< 300
	06/02/05	< 50	< 50	< 300
	03/21/05	< 50	< 50	< 300
DUP0321052A	03/21/05	< 50	< 50	< 300
	12/15/04	< 50	< 50	< 300
DUP1215041A	12/15/04	< 50	< 50	< 300
610GW101CL	12/15/04	< 50 U	< 50 U	< 300 U
	08/10/04	< 50	< 50	< 300
	05/26/04	< 50	< 50	< 300
	03/10/04	< 50	< 50	< 300
DUP0310043A	03/10/04	< 50	< 50	< 300
610GW101CL	03/10/04	< 50	< 48	< 240
	12/02/03	< 50	< 50	< 300
	08/14/03	< 50	< 50	450
DUP0814033A	08/14/03	< 50	< 50	< 300
610GW101CL	08/14/03	< 50	< 48	< 240
	06/04/03	< 50	< 50	< 300
DUP0604033B	06/04/03	< 50	< 50	< 300
610GW101CL	06/04/03	< 50	< 50	< 250
	03/11/03	< 50	380 YH	**1,400**
	12/03/02	< 50	< 50	< 300
	08/29/02	< 50	< 50	< 300
	05/29/02	< 50	< 50	< 300
	03/05/02	< 50	< 50	< 300
	12/03/01	< 50	< 50	< 300
	08/29/01	< 50	NA	NA
610GW102	06/06/07	< 50	< 50	< 300
	05/23/06	50 LY	< 50	< 300
	03/07/06	< 50	< 50	< 300
	12/01/05	62	< 50	< 300
	08/31/05	55	< 50	< 300
	06/02/05	52	< 50	< 300
	03/31/05	51	< 50	< 300
DUP0331052C	03/31/05	< 50	< 50	< 300
610GW102CL	03/31/05	< 50 U	< 50 U	< 300 U
	12/15/04	64	< 50	< 300
	08/11/04	< 50	< 50	< 300
DUP0811041A	08/11/04	50	< 50	< 300
610GW102CL	08/11/04	< 100	< 100 J-	< 400 UJ
	05/26/04	58 Y	< 50	< 300
	03/09/04	67	< 50	< 300
	12/02/03	83	< 50	< 300
	08/18/03	73 Y	< 50	< 300
	06/05/03	67	< 50	< 300

Table A-16-2
Results of TPH Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**770**	**880**	**1,200**
610GW102	03/11/03	< 50	< 50	< 300
DUP0311033A	03/11/03	< 50	< 50	< 300
	12/03/02	55 Y	< 50	< 300
	08/29/02	67	< 50	< 300
	05/29/02	< 50	< 50	< 300
	03/05/02	72	< 50	< 300
	12/03/01	< 50	< 50	< 300
	08/29/01	230	NA	NA
610GW103	06/07/07	60 L	< 50	< 300
	05/23/06	< 50	< 50	< 300
DUP0523061A	05/23/06	< 50	< 50	< 300
	03/07/06	< 50	< 50	< 300
DUP0307061A	03/07/06	< 50	< 50	< 300
610GW103CL	03/07/06	< 50 U	< 50 U	< 300 U
	12/01/05	< 50	< 50	< 300
	09/01/05	60 Y	< 50	< 300
DUP0901051A	09/01/05	< 50	< 50	< 300
	06/02/05	< 50	< 50	< 300
	03/22/05	< 50	< 50	< 300
	12/16/04	52 HY	< 50	< 300
	08/10/04	61 Y	< 50	< 300
	05/26/04	< 50	< 50	< 300
	03/09/04	69	< 50	< 300
	12/03/03	64	< 50	< 300
DUP1203033A	12/03/03	60	< 50	< 300
610GW103CL	12/03/03	< 50	< 48 A-01,U	< 240
	08/18/03	110 Y	< 50	< 300
DUP0818033A	08/18/03	110 Y	62 Y	< 300
	06/05/03	96	< 50	< 300
	03/11/03	< 50	< 50	< 300
	12/03/02	< 50	< 50	< 300
DUP1203022A	12/03/02	54 Y	< 50	< 300
	08/29/02	59	< 50	< 300
	05/30/02	88	< 50	< 300
DUP0530022A	05/30/02	88	< 50	< 300
610GW103CL	05/30/02	110 g	< 50	< 300
610GW103	03/05/02	100	< 50	< 300
DUP0305023A	03/05/02	110	< 50	< 300
610GW103CL	03/05/02	95 g	< 50 UJ	< 300
	12/03/01	< 50	< 50	< 300
DUP1203011A	12/03/01	< 50	< 50	< 300
610GW103CL	12/03/01	< 50	< 50	< 500
	08/29/01	430	NA	NA
610SP01	06/07/07	< 50	130 Y	490
	08/17/06	< 50	< 50	< 300
	03/21/06	83 Y	< 50	< 300
	09/01/05	67 Y	< 50	< 300
	06/01/05	99 Y	< 50	< 300
	12/17/04	85 HY	< 50	< 300
	08/13/04	51	< 50	< 300
	05/28/04	54	< 50	< 300
	03/16/04	< 50	< 50	< 300
	12/09/03	100 Y	< 50	< 300
DUP1209031A	12/09/03	100 Y	< 50	< 300
610SP01CL	12/09/03	58	< 48	< 240
	08/21/03	< 50	< 50	< 300
	06/11/03	56 Y	< 50	< 300
	03/20/03	81	< 50	< 300
	12/11/02	< 50	< 50	< 300

Table A-16-2
Results of TPH Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**770**	**880**	**1,200**
610SP01	09/05/02	< 50	< 50	< 300
	02/14/02	88	< 50	< 300
	08/30/01	80	< 50	< 300
	07/19/01	130 Y	130 Y	< 300
	05/25/01	87	< 50	< 300
	04/05/01	150 Y	80 Y	< 300
	12/27/00	NA	< 50	NA
	08/02/00	450	NA	NA
	06/27/00	170	NA	NA
	05/09/00	480 Y	NA	NA
	04/06/00	460 Y	NA	NA
	02/09/00	440 Y	NA	NA
	01/04/00	**810**	NA	NA
	12/03/99	660 Y	NA	NA
	11/18/99	570	< 50	< 300
610SP02	03/21/06	66 Y	< 50	< 300
	09/01/05	110 Y	< 50	< 300
	06/01/05	120 Y	< 50	< 300
	12/17/04	150 HY	< 50	< 300
	08/13/04	< 50	< 50	< 300
	05/28/04	56	< 50	< 300
	03/16/04	81	< 50	< 300
	12/09/03	240 Y	< 50	< 300
	08/21/03	85	< 50	< 300
	06/11/03	71 Y	< 50	< 300
	03/20/03	97	< 50	< 300
	12/11/02	130 Y	< 50	< 300
	09/05/02	120 Y	< 50	< 300
	02/14/02	140	< 50	< 300
	08/30/01	190	< 50	< 300
	07/19/01	57 Y	250 Y	< 300
	05/25/01	110	170 Y	< 300
	04/05/01	150 Y	63 Y	< 300
	12/27/00	NA	< 50	NA
	08/02/00	67	NA	NA
	06/27/00	73	NA	NA
	05/09/00	280 Y	NA	NA
	04/06/00	110 Y	NA	NA
	02/09/00	210 Y	NA	NA
	12/03/99	95 Y	NA	NA

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Groundwater cleanup levels were taken from the *Revised Final Corrective Action Plan for the Commissary/Post Exchange Study Area, Presidio of San Francisco, California* (Treadwell & Rollo, 2006)
Concentrations in **BOLD** indicate an exceedance of applicable cleanup levels.
µg/L - micrograms per liter
TPH - Total petroleum hydrocarbons
NA - Not analyzed
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-16-3
Results of VOC Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Benzene	Chloroform	Ethylbenzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**1**	**--**	**43**	**13**	**150**	**130**	**--**
600GW101	05/23/06	< 0.5	NA	< 0.5	3.3 C	< 0.5	< 1	NA
	03/08/06	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	12/01/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	09/01/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	06/01/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
DUP0601053A	06/01/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	03/21/05	< 0.5	NA	< 0.5	2.3	< 0.5	0.54 C	NA
	12/16/04	< 0.5	NA	< 0.5	< 2	< 0.5	2 C	NA
	08/10/04	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	05/26/04	< 0.5	NA	2.2	3.5 C	< 0.5	3.1	NA
	03/09/04	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	12/02/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/09/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/11/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/10/02	< 0.5	< 0.5	< 0.5	< 2.0	< 0.5	< 1.0	ND
600GW102	03/15/06	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	04/06/05	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/09/04	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/09/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/11/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/10/02	< 0.5	< 0.5	< 0.5	< 2.0	< 0.5	< 1.0	ND
600GW103	03/15/06	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	04/11/05	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/09/04	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0813033A	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/09/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/11/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/10/02	< 0.5	< 0.5	< 0.5	< 2.0	< 0.5	< 1.0	ND
600GW104	03/15/06	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	04/11/05	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/09/04	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP1202033A	12/02/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/18/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/05/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/11/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0311032A	03/11/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
600GW104CL	03/11/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/10/02	< 0.5	< 0.5	< 0.5	< 2.0	< 0.5	< 1.0	ND
DUP0910021A	09/10/02	< 0.5	< 0.5	< 0.5	< 2.0	< 0.5	< 1.0	ND

Table A-16-3
Results of VOC Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Benzene	Chloroform	Ethylbenzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**1**	**--**	**43**	**13**	**150**	**130**	**--**
600GW105	03/08/06	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/22/05	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/05/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0605033A	06/05/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/12/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/11/02	< 0.5	< 0.5	< 0.5	< 2	< 0.5	< 1	ND
600GW106	06/07/07	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	03/08/06	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/29/05	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/05/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/12/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/11/02	< 0.5	< 0.5	< 0.5	< 2	< 0.5	< 1	ND
600GW107	03/20/06	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	04/11/05	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/06/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/11/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/11/02	< 0.5	< 0.5	< 0.5	< 2	< 0.5	< 1	ND
600GW108	03/07/06	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
DUP0307061B	03/07/06	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	11/30/05	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
DUP1130051A	11/30/05	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
600GW108CL	11/30/05	< 0.5 U	< 0.5 U	< 0.5 U	< 2 U	< 0.5 U	< 1 U	ND
	09/01/05	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	06/01/05	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/21/05	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
DUP0321052B	03/21/05	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	12/17/04	< 0.5	0.7	< 0.5	< 0.5	< 0.5	< 1	ND
	08/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/26/04	< 0.5	11	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/10/04	< 0.5	4.6	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/03/03	< 0.5	7.9	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 0.5	1.3	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/05/03	< 0.5	4.7	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/12/03	< 0.5	3.7	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/09/02	< 0.5	2.7	< 0.5	< 0.5 UJ	< 0.5	< 0.5	ND
DUP1209022C	12/09/02	< 0.5	3	< 0.5	< 0.5 UJ	< 0.5	< 0.5	ND
600GW108CL	12/09/02	< 0.5	2.6	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/10/02	< 0.5	< 0.5	< 0.5	< 2.0	< 0.5	< 1.0	ND

Table A-16-3
Results of VOC Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Benzene	Chloroform	Ethylbenzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**1**	**--**	**43**	**13**	**150**	**130**	**--**
600GW109	03/14/06	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	04/01/05	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/09/04	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/05/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/11/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/10/02	< 0.5	< 0.5	< 0.5	< 2.0	< 0.5	< 1.0	ND
610GW101	06/06/07	< 0.5	NA	< 0.5	2.6	< 0.5	< 1	NA
	05/23/06	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	03/07/06	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	12/01/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	08/31/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
DUP0831051A	08/31/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	06/02/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	03/21/05	< 0.5	NA	< 0.5	2.2	< 0.5	< 1	NA
DUP0321052A	03/21/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	12/15/04	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
DUP1215041A	12/15/04	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
610GW101CL	12/15/04	< 0.5 U	NA	< 0.5 U	< 2.5 U	< 0.5 U	< 1 U	NA
	08/10/04	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	05/26/04	< 0.5	NA	< 0.5	4.3 C	< 0.5	< 0.5	NA
	03/10/04	< 0.5	NA	< 0.5	< 2 C,U	< 0.5	< 0.5	NA
DUP0310043A	03/10/04	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
610GW101CL	03/10/04	< 0.5	NA	< 0.5	< 2.5	< 0.5	< 0.5	NA
	12/02/03	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	08/14/03	< 0.5	NA	< 0.5	3	< 0.5	< 0.5	NA
DUP0814033A	08/14/03	< 0.5	NA	< 0.5	2.9	< 0.5	< 0.5	NA
610GW101CL	08/14/03	< 0.5	NA	< 0.5	< 2.5	0.81	0.71	NA
	06/04/03	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
DUP0604033B	06/04/03	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
610GW101CL	06/04/03	< 0.5	NA	< 0.5	< 2.5	< 0.5	< 0.5	NA
	03/11/03	< 0.5	NA	< 0.5	2.7	< 0.5	< 0.5	NA
	12/03/02	< 0.5	NA	< 0.5	2.2	< 0.5	< 0.5	NA
	08/29/02	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	05/29/02	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	03/05/02	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	12/03/01	< 0.5	NA	< 0.5	< 2	< 0.5	NA	NA
	08/29/01	< 0.5	NA	< 0.5	< 2	< 0.5	NA	NA
610GW102	06/06/07	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	05/23/06	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	03/07/06	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	12/01/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	08/31/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	06/02/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	03/31/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	03/31/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	03/31/05	< 1 U	NA	< 1 U	< 5 U	< 1 U	< 2 U	NA
	12/15/04	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA

Table A-16-3
Results of VOC Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Benzene	Chloroform	Ethylbenzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**1**	**--**	**43**	**13**	**150**	**130**	**--**
610GW102	08/11/04	< 0.5	NA	< 0.5	2.1	< 0.5	< 0.5	NA
DUP0811041A	08/11/04	< 0.5	NA	< 0.5	4.4	< 0.5	< 0.5	NA
610GW102CL	08/11/04	< 1	NA	< 1	< 1 UJ	< 1	< 1	NA
	05/26/04	< 0.5	NA	< 0.5	4.8	< 0.5	< 0.5	NA
	03/09/04	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	12/02/03	0.53	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	08/18/03	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	06/05/03	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	03/11/03	< 0.5	NA	< 0.5	2.4	< 0.5	< 0.5	NA
DUP0311033A	03/11/03	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	12/03/02	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	08/29/02	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	05/29/02	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	03/05/02	< 0.5	NA	0.78	< 2	< 0.5	< 0.5	NA
	12/03/01	< 0.5	NA	< 0.5	< 2	< 0.5	NA	NA
	08/29/01	< 0.5	NA	< 0.5	< 2	< 0.5	NA	NA
610GW103	06/07/07	< 0.5	NA	< 0.5	< 2	0.66	< 1	NA
	05/23/06	< 0.5	NA	< 0.5	3.2 C	< 0.5	< 1	NA
DUP0523061A	05/23/06	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	03/07/06	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
DUP0307061A	03/07/06	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
610GW103CL03/07/06	03/07/06	< 0.5 U	NA	< 0.5 U	< 2.5 U	< 0.5 U	< 1 U	NA
	12/01/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	09/01/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
DUP0901051A	09/01/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	06/02/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	03/22/05	< 0.5	NA	< 0.5	2.1	< 0.5	< 1	NA
	12/16/04	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	08/10/04	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	05/26/04	< 0.5	NA	< 0.5	3.9 C	< 0.5	< 0.5	NA
	03/09/04	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	12/03/03	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
DUP1203033A	12/03/03	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
610GW103CL	12/03/03	< 0.5	NA	< 0.5	< 2	< 0.5	0.64	NA
	08/18/03	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
DUP0818033A	08/18/03	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	06/05/03	< 0.5	NA	0.69 C	< 2	< 0.5	< 0.5	NA
	03/11/03	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	12/03/02	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
DUP1203022A	12/03/02	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	08/29/02	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	05/30/02	< 0.5	NA	1.0	< 2	< 0.5	< 0.5	NA
	05/30/02	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
610GW103CL	05/30/02	< 0.5	NA	< 0.5	< 5	< 0.5	< 0.5	NA
	03/05/02	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
DUP0305023A	03/05/02	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
610GW103CL	03/05/02	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	NA
	12/03/01	< 0.5	NA	< 0.5	< 2	< 0.5	NA	NA
DUP1203011A	12/03/01	< 0.5	NA	< 0.5	< 2	< 0.5	NA	NA
610GW103CL	12/03/01	< 0.5	NA	< 0.5	< 5	< 0.5	< 0.5	NA
	08/29/01	< 0.5	NA	4.9	< 2	< 0.5	NA	NA

Table A-16-3
Results of VOC Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Benzene	Chloroform	Ethylbenzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**1**	**--**	**43**	**13**	**150**	**130**	**--**
610SP01	06/07/07	< 0.5	NA	< 0.5	< 2	0.55 C	< 1	NA
	08/17/06	< 0.5	NA	< 0.5	4.3 C U	< 0.5	< 1	NA
	03/21/06	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	09/01/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	06/01/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	12/17/04	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	08/13/04	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	05/28/04	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	03/16/04	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	12/09/03	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
DUP1209031A	12/09/03	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
610SP01CL	12/09/03	< 0.5	NA	< 0.5	< 2.5	< 0.5	< 0.5	NA
	08/21/03	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	06/11/03	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	03/20/03	< 0.5	NA	0.54 C	< 2	< 0.5	< 0.5	NA
	12/11/02	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	09/05/02	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	08/30/01	< 0.5	NA	< 0.5	2.5	< 0.5	< 0.5	NA
	07/19/01	< 0.5	NA	2.3 C	2.7	< 0.5	< 0.5	NA
	05/25/01	< 0.5	NA	< 0.5	< 2.0	< 0.5	0.53	NA
	04/05/01	< 0.5	NA	< 0.5	2.2	< 0.5	1.5	NA
	08/02/00	< 0.5	NA	2.1	< 2	1.3	2.14 C	NA
	06/27/00	< 0.5	NA	< 0.5	< 2	< 0.5	0.8	NA
	05/09/00	< 0.5	NA	3	3.3 C	0.93	2	NA
	04/06/00	< 0.5	NA	6.8 C	< 2	4.8 C	0.76	NA
	02/09/00	< 0.5	NA	4.9 C	2	4.9	1.4 C	NA
	01/04/00	< 0.5	NA	4.7	NA	< 0.5	1.2 C	NA
	12/03/99	< 0.5	NA	11 C	NA	6.4	3.6	NA
	11/18/99	< 0.5	NA	3.7	NA	3.8	5 C	NA
610SP02	03/21/06	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	09/01/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	06/01/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	12/17/04	< 0.5	NA	< 0.5	< 2	< 0.5	1.3 C	NA
	08/13/04	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	05/28/04	< 0.5	NA	< 0.5	2 C	< 0.5	< 0.5	NA
	03/16/04	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	12/09/03	< 0.5	NA	< 0.5	< 2	< 0.5	0.58	NA
	08/21/03	< 0.5	NA	< 0.5	**15**	< 0.5	< 0.5	NA
	06/11/03	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	03/20/03	< 0.5	NA	1.7 C	< 2	< 0.5	0.52	NA
	12/11/02	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	09/05/02	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	08/30/01	< 0.5	NA	1.4 C	< 2.0	< 0.5	0.6	NA
	07/19/01	< 0.5	NA	< 0.5	3	< 0.5	< 0.5	NA
	05/25/01	< 0.5	NA	< 0.5	4	< 0.5	< 0.5	NA

Table A-16-3
Results of VOC Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Benzene	Chloroform	Ethylbenzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**1**	**--**	**43**	**13**	**150**	**130**	**--**
610SP02	04/05/01	< 0.5	NA	< 0.5	< 2.0	< 0.5	< 0.5	NA
	08/02/00	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	06/27/00	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	05/09/00	< 0.5	NA	1.3	< 2	0.69 C	0.71	NA
	04/06/00	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	02/09/00	< 0.5	NA	2.1	< 2.0	< 0.5	0.53	NA
	12/03/99	< 0.5	NA	0.82 C	NA	< 0.5	< 0.5	NA

Notes

1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.

2 - Groundwater cleanup levels were taken from the *Revised Final Corrective Action Plan for the Commissary/Post Exchange Study Area, Presidio of San Francisco, California* (Treadwell & Rollo, 2006).

Concentrations in **BOLD** indicate an exceedance of applicable cleanup levels.

µg/L - micrograms per liter

MTBE - Methyl tertiary butyl ether

VOC - Volatile organic compound

NA - Not analyzed

ND - Not detected

CL suffix denotes a quality control duplicate sample was sent to the control laboratory.

Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.

Table 11 in the main report identifies current and historical data qualifiers.

-- - cleanup level not established

Table A-16-4
Results of PAH Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Acenaph-thene	Anthracene	Benzo(a)-Anthracene	Benzo(a)-Pyrene	Benzo(b)-Fluoranthene	Benzo(g,h,i)-Perylene	Benzo(k)-Fluoranthene	Chrysene	Dibenz(a,h)-Anthracene	Fluor-anthene	Indeno (1,2,3-c,d) Pyrene	Phen-anthrene	Pyrene	All Other PAHs
	Analytical Method[1]	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**770**	**0.1**	**0.2**	**0.2**	**150**	**2**	**20**	**--**	**300**	**--**	**230**	**230**	**--**
600GW101	12/02/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	08/13/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	06/09/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
	03/11/03	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	12/04/02	< 1	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.4	< 0.14	< 0.5	< 0.2	ND
	09/10/02	< 5.0	< 0.2	< 0.1	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.5	< 0.2	< 0.2	< 1.0	< 0.2	ND
600GW102	03/15/06	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
	04/06/05	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.14	< 0.49	< 0.19	ND
	03/09/04	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.14	< 0.49	< 0.2	ND
	12/02/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	08/13/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	06/09/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	03/11/03	< 0.96	< 0.48	< 0.1	0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	12/04/02	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.14	< 0.49	< 0.19	ND
	09/10/02	< 5.0	< 0.2	< 0.1	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.5	< 0.2	< 0.2	< 1.0	< 0.2	ND
600GW103	03/15/06	7.4	0.02 J	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	0.02 J	< 0.13	< 0.47	< 0.19	ND
	04/11/05	7.7	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.14	< 0.49	< 0.2	ND
	03/09/04	7.3	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	12/02/03	7.3	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	08/13/03	9	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
DUP0813033A	08/13/03	7.4	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	06/09/03	8.9	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	03/11/03	5.6	< 0.48	< 0.1	0.18	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	12/04/02	6.4	< 0.47	< 0.09	**0.34**	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
	09/10/02	< 5.0	< 0.2	< 0.1	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.5	< 0.2	< 0.2	< 1.0	< 0.2	ND
600GW104	03/15/06	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
	04/11/05	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.14	< 0.49	< 0.2	ND
	03/09/04	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	12/02/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
DUP1202033A	12/02/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
	08/18/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	06/05/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
	03/11/03	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	0.14	< 0.19	< 0.39	< 0.14	< 0.49	< 0.19	ND
DUP0311032A	03/11/03	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
600GW104CL	03/11/03	< 0.5	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.05	< 0.05	< 0.2	< 0.1	< 0.05	< 0.05	< 0.05	ND

Table A-16-4
Results of PAH Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Acenaph-thene	Anthracene	Benzo(a)-Anthracene	Benzo(a)-Pyrene	Benzo(b)-Fluoranthene	Benzo(g,h,i)-Perylene	Benzo(k)-Fluoranthene	Chrysene	Dibenz(a,h)-Anthracene	Fluor-anthene	Indeno (1,2,3-c,d) Pyrene	Phen-anthrene	Pyrene	All Other PAHs
	Analytical Method[1]	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**770**	**0.1**	**0.2**	**0.2**	**150**	**2**	**20**	**--**	**300**	**--**	**230**	**230**	**--**
600GW104	12/04/02	< 0.94 UJ	< 0.47 UJ	< 0.09 UJ	< 0.09 UJ	< 0.19 UJ	< 0.19 UJ	< 0.09 UJ	< 0.09 UJ	< 0.19 UJ	< 0.38 UJ	< 0.13 UJ	< 0.47 UJ	< 0.19 UJ	ND
	09/10/02	< 5.0	< 0.2	< 0.1	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.5	< 0.2	< 0.2	< 1.0	< 0.2	ND
DUP0910021A	09/10/02	< 5.0	< 0.2	< 0.1	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.5	< 0.2	< 0.2	< 1.0	< 0.2	ND
600GW105	03/08/06	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
	03/22/05	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.14	< 0.49	< 0.19	ND
	03/10/04	< 1.1	< 0.56	< 0.11	< 0.11	< 0.22	< 0.22	< 0.11	< 0.11	< 0.22	< 0.44	< 0.16	< 0.56	< 0.22	ND
	12/02/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	08/13/03	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	06/05/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
DUP0605033A	06/05/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
	03/12/03	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.14	< 0.49	< 0.19	ND
	12/04/02	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
	09/11/02	< 5	< 0.2	< 0.1	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.5	< 0.2	< 0.2	< 1	< 0.2	ND
600GW106	03/08/06	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
	03/29/05	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.14	< 0.49	< 0.2	ND
	03/10/04	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	12/02/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	08/13/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	06/05/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
	03/12/03	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.14	< 0.49	< 0.19	ND
	12/04/02	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
	09/11/02	< 5	< 0.2	< 0.1	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.5	< 0.2	< 0.2	< 1	< 0.2	ND
600GW107	03/20/06	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	0.03 J	< 0.13	< 0.48	< 0.19	ND
	04/11/05	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.14	< 0.49	< 0.2	ND
	03/10/04	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.14	< 0.49	< 0.19	ND
	08/13/03	< 1	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	0.05 J	< 0.14	< 0.5	< 0.2	ND
	06/06/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	0.1	< 0.19	0.07 J	< 0.13	< 0.47	< 0.19	ND
	03/11/03	< 0.95	0.19 J	**0.24**	**0.22**	**0.34**	0.4	0.15	0.62	0.4	0.49	0.21	0.51	0.53	ND
	12/04/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/11/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
600GW108	03/07/06	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
DUP0307061B	03/07/06	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.14	< 0.49	< 0.19	ND
	11/30/05	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.14	< 0.49	< 0.19	ND
DUP1130051A	11/30/05	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.14	< 0.49	< 0.2	ND
600GW108CL	11/30/05	< 5 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.5 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	ND
	09/01/05	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.14	< 0.49	< 0.19	ND

Table A-16-4
Results of PAH Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Acenaph-thene	Anthracene	Benzo(a)-Anthracene	Benzo(a)-Pyrene	Benzo(b)-Fluoranthene	Benzo(g,h,i)-Perylene	Benzo(k)-Fluoranthene	Chrysene	Dibenz(a,h)-Anthracene	Fluor-anthene	Indeno (1,2,3-c,d) Pyrene	Phen-anthrene	Pyrene	All Other PAHs
	Analytical Method[1]	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**770**	**0.1**	**0.2**	**0.2**	**150**	**2**	**20**	**--**	**300**	**--**	**230**	**230**	**--**
600GW108	06/01/05	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.13	< 0.48	< 0.19	ND
	03/21/05	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.14	< 0.49	< 0.19	ND
DUP0321052B	03/21/05	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.14	< 0.49	< 0.19	ND
	12/17/04	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.14	< 0.49	< 0.19	ND
	08/10/04	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.14	< 0.49	< 0.2	ND
	05/26/04	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
	03/10/04	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	12/03/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	08/13/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	06/05/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
	03/12/03	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	12/09/02	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
DUP1209022C	12/09/02	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
600GW108CL	12/09/02	< 0.5	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.05	< 0.05	< 0.2	< 0.1	< 0.05	< 0.05	< 0.05	ND
	09/10/02	< 5.0	< 0.2	< 0.1	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.5	< 0.2	< 0.2	< 1.0	< 0.2	ND
600GW109	03/14/06	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
	04/01/05	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	03/09/04	< 1	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.4	< 0.14	< 0.5	< 0.2	ND
	12/03/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
	08/13/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	06/05/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	03/11/03	< 0.96	< 0.48	< 0.1	0.11	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	12/04/02	< 0.94	< 0.47	< 0.09	0.15	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
	09/10/02	< 5.0	< 0.2	< 0.1	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.5	< 0.2	< 0.2	< 1.0	< 0.2	ND

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Groundwater cleanup levels were taken from the *Revised Final Corrective Action Plan for the Commissary/Post Exchange Study Area, Presidio of San Francisco, California* (Treadwell & Rollo, 2006).
Concentrations in **BOLD** indicate an exceedance of applicable cleanup levels.
-- cleanup level not established
µg/L - micrograms per liter
PAHs - Polycyclic aromatic hydrocarbons
NA - Not analyzed
ND - Not detected
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-16-5
Results of Total and Dissolved Metals Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Aluminum	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [2]		**--**	**10**	**10**	**5**	**--**	**50**	**2.9**	**--**	**5.6**	**--**	**--**	**7.1**	**--**	**--**	**58**	**--**
600GW101	05/23/06	< 100	< 5	NA	< 1	99,000	< 10	2.1	9,600	< 3	56,000	1,400	< 20	15,000	150,000	< 20	880
	03/08/06	< 100	5.1	NA	< 1	87,000	< 10	< 1	7,000	< 3	44,000	900	< 20	10,000	110,000	< 20	800
	12/01/05	< 100	< 5	NA	< 1	77,000	< 10	< 1	11,000	< 3	43,000	1,200	< 20	13,000	140,000	< 20	850
	09/01/05	< 100	< 5	1.3 J	< 1	81,000	< 10	< 1	11,000	< 3	47,000	970	< 20	16,000 J	190,000	< 20	740
	06/01/05	< 100	< 5	2.12	< 1	90,000	< 10	< 1	10,000	< 3	49,000	1,200	< 20	15,000 J	150,000	< 20	860
DUP0601053A	06/01/05	< 100	< 5	2.34	< 1	100,000	< 10	< 1	10,000	< 3	55,000	1,300	< 20	15,000 J	170,000	< 20	930
	03/21/05	< 100	< 5	3.16	< 1	100,000	< 10	< 1	9,200	< 3	48,000	1,300	< 20	13,000	120,000	< 20	870
	12/22/04	NA	NA	2.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/16/04	NA	< 5	NA	< 1	NA	< 10	< 1	350	< 3	NA	NA	< 20	NA	NA	< 20	930
	08/10/04	NA	< 5	NA	< 1	NA	< 10	< 1	10,000	< 3	NA	NA	< 20	NA	NA	< 20	900
	05/26/04	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	890
	03/09/04	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	890
	12/02/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	730
	08/13/03	NA	< 5	NA	< 1	NA	< 10	2.3	NA	< 3	NA	NA	< 20	NA	NA	< 20	790
	06/09/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	980
	03/11/03	NA	5.8	NA	< 1	NA	4.7	< 1	NA	< 3	NA	NA	3.4	NA	NA	< 20	950
	12/04/02	NA	1.7	NA	< 1	NA	6.3	< 1	NA	< 3	NA	NA	2.2	NA	NA	< 20	890
	09/10/02	NA	< 5.0	NA	< 5.0	NA	< 10	< 20	NA	< 15	NA	NA	< 50	NA	NA	**88**	NA
600GW102	03/15/06	< 100	< 5	NA	< 1	180,000	< 10	1.1	2,500 J	< 3	54,000	370	< 20	12,000 J	180,000	< 20	1,110 J
	04/06/05	< 100	< 5	1.14	< 1	150,000	< 10	< 1	3,000	< 3	46,000	270	< 20	9,900	140,000	< 20	810
	03/09/04	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	910
	12/02/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	590
	08/13/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	1,990
	06/09/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	1,400
	03/11/03	NA	3.4	NA	< 1	NA	2	< 1	NA	< 3	NA	NA	4.3	NA	NA	< 20	720
	12/04/02	NA	3	NA	< 1	NA	1.9	< 1	NA	< 3	NA	NA	4.3	NA	NA	< 20	1,450
	09/10/02	NA	6.2	NA	< 5.0	NA	< 10	< 20	NA	< 15	NA	NA	< 50	NA	NA	**140**	NA
600GW103	03/15/06	< 100	< 5	NA	< 1	130,000	< 10	< 1	13,000 J	< 3	35,000	4,000	< 20	13,000 J	86,000	< 20	790 J
	04/11/05	< 100	5.4	3.21	< 1	110,000	< 10	< 1	11,000	< 3	31,000	3,200	< 20	13,000	84,000	< 20	780
	03/09/04	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	680
	12/02/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	580
	08/13/03	NA	7.2	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	620
DUP0813033A	08/13/03	NA	9.7	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	670
	06/09/03	NA	7.6	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	770
	03/11/03	NA	4	NA	< 1	NA	1.2	< 1	NA	< 3	NA	NA	2.9	NA	NA	< 20	670
	12/04/02	NA	4.2	NA	< 1	NA	3.1	< 1	NA	< 3	NA	NA	3.3	NA	NA	< 20	660
	09/10/02	NA	6.7	NA	< 5.0	NA	< 10	< 20	NA	< 15	NA	NA	< 50	NA	NA	**120**	NA
600GW104	03/15/06	< 100	< 5	NA	< 1	130,000	< 10	1.4	2,200 J	< 3	50,000	420	< 20	5,500 J	44,000	< 20	510 J
	04/11/05	< 100	< 5	2.18	< 1	120,000	< 10	< 1	1,100	< 3	52,000	330	< 20	6,500	48,000	< 20	440
	03/09/04	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	500
	12/02/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	370
DUP1202033A	12/02/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	330
	08/18/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20 UJ	530

Table A-16-5
Results of Total and Dissolved Metals Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Aluminum	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [2]		**--**	**10**	**10**	**5**	**--**	**50**	**2.9**	**--**	**5.6**	**--**	**--**	**7.1**	**--**	**--**	**58**	**--**
600GW104	06/05/03	NA	< 5	NA	< 1	NA	< 10	1.2	NA	< 3	NA	NA	< 20	NA	NA	< 20	620
	03/11/03	NA	< 1	NA	< 1	NA	< 1	1	NA	< 3	NA	NA	**7.3**	NA	NA	< 20	800
DUP0311032A	03/11/03	NA	< 1	NA	< 1	NA	1.8	1.1	NA	< 3	NA	NA	7.1	NA	NA	< 20	870
600GW104CL	03/11/03	NA	6.5	NA	< 1	NA	< 5	< 5	NA	< 3	NA	NA	**8.8**	NA	NA	14	960
	12/04/02	NA	1.3	NA	< 1	NA	1.4	< 1	NA	< 3	NA	NA	5.1	NA	NA	< 20	540
	09/10/02	NA	< 5.0	NA	< 5.0	NA	< 10	< 20	NA	< 15	NA	NA	< 50	NA	NA	55	NA
DUP0910021A	09/10/02	NA	< 5.0	NA	< 5.0	NA	< 10	< 20	NA	< 15	NA	NA	< 50	NA	NA	**79**	NA
600GW105	05/23/06	< 100	< 5	NA	< 1	37,000	< 10	< 1	3,500	< 3	49,000	3,800	< 20	910	120,000	< 20	640
	03/08/06	< 100	< 5	NA	< 1	32,000	< 10	< 1	2,500	< 3	42,000	3,300	< 20	710	96,000	< 20	550
	12/01/05	< 100	< 5	NA	< 1	34,000	< 10	< 1	3,000	< 3	44,000	3,700	< 20	870	100,000	< 20	560
	09/01/05	< 100	< 5	NA	< 1	36,000	< 10	< 1	3,300	< 3	52,000	3,800	< 20	960 J	130,000	< 20	530
	06/01/05	< 100	< 5	NA	< 1	39,000	< 10	< 1	2,600	< 3	47,000	3,700	< 20	740 J	110,000	< 20	590
	03/22/05	< 100	< 5	NA	< 1	32,000	< 10	< 1	1,600	< 3	43,000	3,300	< 20	700	100,000	< 20	550
	12/22/04	NA	NA	0.931	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/16/04	NA	< 5	NA	< 1	NA	< 10	1.5	290	< 3	NA	NA	< 20	NA	NA	< 20	540
	08/12/04	NA	< 5	NA	< 1	NA	< 10	< 1	1,800	< 3	NA	NA	< 20	NA	NA	< 20	660
	03/10/04	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	600
	12/02/03	NA	< 5	NA	< 1	NA	< 10	1.1	NA	< 3	NA	NA	< 20	NA	NA	< 20	420
	08/13/03	NA	< 5	NA	< 1	NA	< 10	1.4	NA	< 3	NA	NA	< 20	NA	NA	< 20	470
	06/05/03	NA	< 5	NA	< 1	NA	< 10	1.1	NA	< 3	NA	NA	< 20	NA	NA	< 20	550
DUP0605033A	06/05/03	NA	< 5	NA	< 1	NA	< 10	1.6	NA	< 3	NA	NA	< 20	NA	NA	< 20	510
	03/12/03	NA	< 1	NA	< 1	NA	< 1	1.9	NA	< 3	NA	NA	**11**	NA	NA	< 20	560
	12/04/02	NA	< 1	NA	< 1	NA	1.5	**4.2**	NA	< 3	NA	NA	**9.1**	NA	NA	< 20	560
	09/11/02	NA	< 5	NA	< 5	NA	< 10	< 20	NA	< 15	NA	NA	< 50	NA	NA	**130**	NA
600GW106	06/07/07	< 100	< 5	NA	NA	NA	NA	NA	< 100	NA	NA	1,600	NA	NA	NA	NA	590
	05/23/06	< 100	< 5	NA	< 1	22,000	< 10	< 1	< 100	< 3	32,000	1,300	< 20	< 500	88,000	< 20	380
	03/08/06	< 100	< 5	NA	< 1	23,000	< 10	< 1	< 100	< 3	34,000	820	< 20	< 500	89,000	29	510
	12/01/05	< 100	< 5	NA	< 1	19,000	< 10	< 1	< 100	< 3	29,000	620	< 20	< 500	88,000	< 20	440
	09/01/05	< 100	< 5	NA	< 1	16,000	< 10	< 1	140	< 3	25,000	1,000	< 20	< 500 UJ	90,000	< 20	320
	06/01/05	< 100	< 5	NA	< 1	15,000	< 10	< 1	< 100	< 3	22,000	700	< 20	< 500 UJ	80,000	36	340
	03/29/05	< 100	< 5	NA	< 1	17,000	< 10	2.2	< 100	< 3	26,000	600	< 20	< 500	83,000	< 20	410
	12/22/04	NA	NA	0.441	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/17/04	NA	< 5	NA	< 1	NA	< 10	< 1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	380
	08/10/04	NA	< 5	NA	< 1	NA	< 10	< 1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	370
	03/10/04	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	410
	12/02/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	310
	08/13/03	NA	< 5	NA	< 1	NA	< 10	1.1	NA	< 3	NA	NA	< 20	NA	NA	< 20	280
	06/05/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	380
	03/12/03	NA	< 1	NA	< 1	NA	1.1	< 1	NA	< 3	NA	NA	4.6	NA	NA	< 20	350
	12/04/02	NA	< 1	NA	< 1	NA	1.6	1.1	NA	< 3	NA	NA	4.4	NA	NA	< 20	560
	09/11/02	NA	< 5	NA	< 5	NA	< 10	< 20	NA	< 15	NA	NA	< 50	NA	NA	**260**	NA
600GW107	03/20/06	< 100 UJ	< 5	NA	< 1	110,000	< 10	< 1	12,000	< 3	53,000	2,800	< 20	5,900	56,000	< 20	560
	04/11/05	< 100	7	NA	< 1	120,000	< 10	< 1	9,500	< 3	56,000	2,700	< 20	6,700	62,000	21	670

Table A-16-5
Results of Total and Dissolved Metals Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Aluminum	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [2]		**--**	**10**	**10**	**5**	**--**	**50**	**2.9**	**--**	**5.6**	**--**	**--**	**7.1**	**--**	**--**	**58**	**--**
600GW107	03/10/04	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	630
	12/03/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	NA
	08/13/03	NA	7.1	NA	< 1	NA	< 10	1.2	NA	< 3	NA	NA	< 20	NA	NA	< 20	570
	06/06/03	NA	< 5	NA	< 1	NA	< 10	2.3	NA	< 3	NA	NA	< 20	NA	NA	< 20	630
	03/11/03	NA	2.4	NA	< 1	NA	1	< 1	NA	< 3	NA	NA	3.8	NA	NA	< 20	640
600GW108	05/23/06	< 100	< 5	NA	< 1	23,000	< 10	< 1	< 100	< 3	25,000	45	< 20	2,200	33,000	< 20	280
	03/07/06	< 100	< 5	NA	< 1	40,000	< 10	**3.1**	160	< 3	41,000	20	< 20	3,800	70,000	< 20	530
DUP0307061B	03/07/06	< 100	< 5	NA	< 1	40,000	< 10	1.5	150	< 3	40,000	15	< 20	3,700	68,000	< 20	480
	11/30/05	< 100	< 5	NA	< 1	35,000	< 10	< 1	190	< 3	38,000	18	< 20	2,700	35,000	< 20	360
DUP1130051A	11/30/05	< 100	< 5	NA	< 1	35,000	< 10	< 1	190	< 3	38,000	18	< 20	2,800	35,000	< 20	360
600GW108CL	11/30/05	< 100 U	< 2 U	NA	< 1 U	40,000	< 10 U	< 2 U	< 100 U	< 1 U	43,000	20	3.2	< 5,000 UN	38,000	< 20 U	419
	09/01/05	< 100	< 5	NA	< 1	27,000	< 10	< 1	230	< 3	37,000	19	< 20	2,800 J	37,000	24	300
	06/01/05	< 100	< 5	NA	< 1	35,000	< 10	< 1	< 100	< 3	35,000	12	< 20	2,500 J	35,000	< 20	380
	03/21/05	< 100	< 5	NA	< 1	50,000	< 10	< 1	140	< 3	43,000	16	< 20	3,200	31,000	< 20	450
DUP0321052B	03/21/05	< 100	< 5	NA	< 1	52,000	< 10	< 1	140	< 3	42,000	17	< 20	3,300	30,000	< 20	460
	12/22/04	NA	NA	0.446	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/17/04	NA	< 5	NA	< 1	NA	< 10	< 1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	300
	08/10/04	NA	< 5	NA	< 1	NA	< 10	< 1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	230
	05/26/04	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	290
	03/10/04	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	360
	12/03/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	330
	08/13/03	NA	< 5	NA	< 1	NA	< 10	1.3	NA	< 3	NA	NA	< 20	NA	NA	< 20	250
	06/05/03	NA	< 5	NA	< 1	NA	< 10	1.1	NA	< 3	NA	NA	< 20	NA	NA	< 20	280
	03/12/03	NA	< 1	NA	< 1	NA	< 1	< 1	NA	< 3	NA	NA	4.2	NA	NA	< 20	310
	12/09/02	NA	< 1	NA	< 1	NA	1.2	< 1	NA	< 3	NA	NA	5.4	NA	NA	< 20	360
DUP1209022C	12/09/02	NA	< 1	NA	< 1	NA	< 1	< 1	NA	< 3	NA	NA	4.4	NA	NA	< 20	350
600GW108CL	12/09/02	NA	< 2 U	NA	< 1	NA	< 5	< 5	NA	< 3	NA	NA	< 5	NA	NA	< 10	330
	09/10/02	NA	< 5	NA	< 5	NA	< 10	< 20	NA	< 15	NA	NA	< 50	NA	NA	**140**	NA
600GW109	03/14/06	< 100	< 5	NA	< 1	37,000	< 10	< 1	2,900	< 3	51,000	170	< 20	2,800	46,000	< 20	620
	04/01/05	< 100	< 5	NA	< 1	28,000 J	< 10	2.4	2,800	< 3	49,000	190 J	< 20	2,700	39,000	< 20	450
	03/09/04	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	430
	12/03/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	350
	08/13/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	480
	06/05/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	440
	03/11/03	NA	< 1	NA	< 1	NA	2.9	< 1	NA	< 3	NA	NA	3.5	NA	NA	< 20	490
	12/04/02	NA	< 1	NA	< 1	NA	1.7	< 1	NA	< 3	NA	NA	2.2	NA	NA	< 20	450
610GW101	06/06/07	< 100	< 5	NA	< 1	63,000	< 10	< 1	5,200	< 3	48,000	430	< 20	7,100	81,000	< 20	590
	05/23/06	< 100	< 5	NA	< 1	59,000	< 10	< 1	4,500	< 3	43,000	390	< 20	6,500	79,000	< 20	590
	03/07/06	< 100	< 5	NA	< 1	48,000	< 10	< 1	4,000	< 3	41,000	320	< 20	5,500	65,000	< 20	590
	12/01/05	< 100	< 5	NA	< 1	58,000	< 10	< 1	4,500	< 3	45,000	380	< 20	5,800	77,000	< 20	620
	08/31/05	< 100 UJ	5.1	3.6 J	< 1	55,000	< 10	< 1	4,300	< 3	39,000	250	< 20	7,000	69,000	< 20	830
DUP0831051A	08/31/05	< 100 UJ	< 5	4.4 J	< 1	58,000	< 10	< 1	4,500	< 3	42,000	260	< 20	7,200	74,000	< 20	550

Table A-16-5
Results of Total and Dissolved Metals Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Aluminum	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [2]		**--**	**10**	**10**	**5**	**--**	**50**	**2.9**	**--**	**5.6**	**--**	**--**	**7.1**	**--**	**--**	**58**	**--**
610GW101	06/02/05	< 100	< 5	3.34	< 1	62,000	< 10	1.9	4,300	< 3	43,000	280	< 20	6,400 J	80,000	< 20	580
	03/21/05	< 100	< 5	1.51	< 1	63,000	< 10	< 1	4,200	< 3	37,000	280	< 20	5,200	70,000	< 20	530
DUP0321052A	03/21/05	< 100	< 5	1.68	< 1	62,000	< 10	< 1	4,000	< 3	37,000	280	< 20	5,100	70,000	< 20	480
	12/21/04	NA	NA	2.60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/21/04	NA	NA	2.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/15/04	NA	< 5	NA	< 1	NA	< 10	< 1	3,100	< 3	NA	240	< 20	NA	NA	< 20	440
DUP1215041A	12/15/04	NA	< 5	NA	< 1	NA	< 10	< 1	3,200	< 3	NA	260	< 20	NA	NA	< 20	2190
610GW101CL	12/15/04	NA	2.1	NA	< 1 U	NA	< 10 U	< 2 U	3,540	< 1 U	NA	256	< 2 U	NA	NA	< 20 U	488
	08/10/04	NA	< 5	NA	< 1	NA	< 10	< 1	4,400	< 3	NA	NA	< 20	NA	NA	< 20	600
	05/26/04	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	600
	03/10/04	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	560
DUP0310043A	03/10/04	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	550
610GW101CL	03/10/04	NA	< 5	NA	< 1	NA	< 10	< 10	NA	< 3	NA	NA	< 10	NA	NA	< 20	540 QB01
	12/02/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	540
	08/14/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20 UJ	540
DUP0814033A	08/14/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20 UJ	500
610GW101CL	08/14/03	NA	7.3	NA	< 1	NA	< 10	< 10	NA	< 3	NA	NA	< 10	NA	NA	< 20	580
	06/04/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	640
DUP0604033B	06/04/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	550
610GW101CL	06/04/03	NA	4.6	NA	< 1	NA	< 5	< 5	NA	< 3	NA	NA	< 5	NA	NA	< 20	520
	03/11/03	NA	1.1	NA	< 1	NA	2.9	< 1	NA	< 3	NA	NA	1.5	NA	NA	< 20	520
	12/03/02	NA	1.4	NA	< 1	NA	1.8 J	< 1	NA	< 3	NA	NA	1.1	NA	NA	< 20	600
610GW102	06/06/07	< 100	< 5	NA	< 1	61,000	< 10	< 1	2,300	< 3	29,000	2,200	< 20	4,800	73,000	< 20	480
	05/23/06	< 100	< 5	NA	< 1	57,000	< 10	< 1	1,400	< 3	30,000	2,300	< 20	4,300	80,000	< 20	570
	03/07/06	< 100	5.9	NA	< 1	66,000	< 10	< 1	1,800	< 3	36,000	2,800	< 20	4,700	83,000	30	570
	12/01/05	< 100	6.8	NA	< 1	71,000	< 10	< 1	2,400	< 3	36,000	3,600	< 20	4,700	85,000	< 20	590
	08/31/05	< 100 UJ	7.7	7.4 J	< 1	59,000	< 10	< 1	2,300	< 3	30,000	2,800	< 20	4,900	75,000	< 20	520
	06/02/05	< 100	6.5	6.39	< 1	71,000	< 10	< 1	1,700	< 3	34,000	3,300	< 20	5,100 J	79,000	< 20	520
	03/31/05	< 100	6.9	6.52	< 1	86,000 J	< 10	< 1	2,000	< 3	37,000	3,700 J	< 20	5,100	83,000	< 20	590 J-
DUP0331052C	03/31/05	< 100 U	6.5	6.01	< 1	78,200	< 10	< 1	1,800	< 3	67,300	3,500 J	< 20	6,810	70,100	< 20	540 J-
610GW102CL	03/31/05	< 100	**22.1**	NA	< 1 U	79,000 J	< 10 U	< 2 U	27,600	**5.89**	33,000	1,350	< 2 U	4,600	73,000	< 20 U	667
	12/21/04	NA	NA	4.96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/15/04	NA	6.1	NA	< 1	NA	< 10	< 1	2,700	< 3	NA	4,100	< 20	NA	NA	29	630
	08/11/04	NA	7.3	NA	< 1	NA	< 10	< 1	2,000	< 3	NA	NA	< 20	NA	NA	< 20	500
DUP0811041A	08/11/04	NA	7.3	NA	< 1	NA	< 10	< 1	2,100	< 3	NA	NA	< 20	NA	NA	< 20	470
610GW102CL	08/11/04	NA	< 40	NA	< 10	NA	< 10	< 10	1,100	< 50	NA	NA	< 30	NA	NA	< 30	571
	05/26/04	NA	**11**	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	500
	03/09/04	NA	6.9	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	570
	12/02/03	NA	9.9	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	430
	08/18/03	NA	**13**	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20 UJ	340
	06/05/03	NA	**11**	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	500

Table A-16-5
Results of Total and Dissolved Metals Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Aluminum	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [2]		--	**10**	**10**	**5**	--	**50**	**2.9**	--	**5.6**	--	--	**7.1**	--	--	**58**	--
610GW102	03/11/03	NA	8.6	NA	< 1	NA	2.7	1	NA	< 3	NA	NA	6.1	NA	NA	< 20	580
DUP0311033A	03/11/03	NA	8.9	NA	< 1	NA	1.1	< 1	NA	< 3	NA	NA	5.8	NA	NA	< 20	530
	12/03/02	NA	**11**	NA	< 1	NA	2.8 J	< 1	NA	< 3	NA	NA	5.2	NA	NA	< 20	390
610GW103	06/07/07	< 100	< 5	NA	NA	NA	NA	NA	2,300	NA	NA	3,500	NA	NA	NA	NA	590
	05/23/06	< 100	5.9	NA	< 1	63,000	< 10	< 1	3,500	< 3	41,000	2,400	< 20	6,900	76,000	< 20	520
DUP0523061A	05/23/06	< 100	6.3	NA	< 1	65,000	< 10	< 1	3,400	< 3	42,000	2,500	< 20	7,100	77,000	< 20	490
	03/07/06	< 100	5.4	NA	< 1	66,000	< 10	1.5	580	< 3	46,000	810	< 20	8,500	89,000	< 20	720
DUP0307061A	03/07/06	< 100	5.7	NA	< 1	66,000	< 10	1.3	670	< 3	45,000	870	< 20	8,400	99,000	< 20	660
610GW103CL	03/07/06	< 100 U	4.7	NA	< 1 U	77,000	< 10 U	2.2	410	< 1 U	52,000	960	**8.3**	9,000	100,000	< 20 U	698 J+
	12/01/05	< 100	9.1	NA	< 1	82,000	< 10	< 1	3,400	< 3	52,000	3,800	< 20	7,600	130,000	< 20	760
	09/01/05	< 100	8.4	7.41 J	< 1	62,000	< 10	< 1	3,600	< 3	43,000	4,000	< 20	6,600 J	110,000	< 20	520
DUP0901051A	09/01/05	< 100	8.9	8 J	< 1	73,000	< 10	< 1	4,000	< 60	49,000	4,500	< 20	6,900 J	100,000	< 20	530
	06/02/05	< 100	10	9.43	< 1	84,000	< 10	< 1	3,900	< 3	51,000	2,900	< 20	8,000 J	120,000	< 20	670
	03/22/05	< 100	5.2	4.60	< 1	64,000	< 10	1.9	650	< 3	46,000	790	< 20	9,400	130,000	< 20	770
	12/21/04	NA	NA	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/16/04	NA	5.1	NA	< 1	NA	< 10	< 1	240	< 3	NA	3,000	< 20	NA	NA	< 20	880
	08/10/04	NA	9.8	NA	< 1	NA	< 10	< 1	3,000	< 3	NA	NA	< 20	NA	NA	< 20	620
	05/26/04	NA	**12**	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	640
	03/09/04	NA	7.8	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	21	640
	12/03/03	NA	7.5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	580
DUP1203033A	12/03/03	NA	7.2	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	600
610GW103CL	12/03/03	NA	**13**	NA	< 1	NA	< 10	< 10	NA	< 3	NA	NA	< 10	NA	NA	< 20	560
	08/18/03	NA	7.4	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20 UJ	570
DUP0818033A	08/18/03	NA	7.1	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20 UJ	530
	06/05/03	NA	7.3	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	560
	03/11/03	NA	6.3	NA	< 1	NA	2.2	< 1	NA	< 3	NA	NA	**7.7**	NA	NA	< 20	690
	12/03/02	NA	4.7	NA	< 1	NA	3.3 J	< 1	NA	< 3	NA	NA	1.9	NA	NA	< 20	2,880
DUP1203022A	12/03/02	NA	4.6	NA	< 1	NA	3.1 J	< 1	NA	< 3	NA	NA	2	NA	NA	< 20	3,080
610SP01	06/07/07	< 100	**28**	NA	NA	NA	NA	NA	1,100	NA	NA	780	NA	NA	NA	NA	890
	08/17/06	< 100	7.7	NA	< 1	230,000 J	< 10	1.4	4,200	< 3	400,000	3,900	< 20	90,000	3,400,000	< 20	10,900
	03/21/06	< 100 UJ	< 5	NA	< 1	52,000	< 10	< 1	780	< 3	40,000	1,600	< 20	11,000	140,000	< 20	880 b J-
	09/01/05	< 100	10	7.4 J	< 1	240,000	< 10	2.1	9,500	< 3	360,000	2,400	< 20	110,000 J	4,100,000	37	12,700
	06/01/05	< 100	8.7	7.6	< 1	64,000	< 10	< 1	280	< 3	74,000	350	< 20	37,000 J	250,000	< 20	1,220
	12/21/04	NA	NA	5.72	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/17/04	NA	8	NA	< 1	NA	< 10	< 1	210	< 3	NA	540	< 20	NA	NA	< 20	4,240
	08/13/04	NA	**15**	NA	< 1	NA	< 10	< 1 U	1,000	< 3	NA	NA	< 20	NA	NA	< 20	9,260
	05/28/04	NA	8.6	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	890
	12/09/03	NA	6.6	NA	< 1	NA	21	2.4	NA	**15**	NA	NA	**65**	NA	NA	**110** J+	6,850
	06/11/03	NA	**16**	NA	< 1	NA	< 10	1.1	NA	< 3	NA	NA	< 20	NA	NA	< 20	8,860
	03/20/03	NA	9.9	NA	< 1	NA	1.2	< 1	NA	< 3	NA	NA	3.6	NA	NA	< 10	4,480
	12/11/02	NA	**19**	NA	< 1	NA	3.2	1.4	NA	< 3	NA	NA	3.3	NA	NA	< 20	12,200

Table A-16-5
Results of Total and Dissolved Metals Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Aluminum	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [2]		**--**	**10**	**10**	**5**	**--**	**50**	**2.9**	**--**	**5.6**	**--**	**--**	**7.1**	**--**	**--**	**58**	**--**
610SP02	03/21/06	< 100 UJ	< 5	NA	< 1	67,000	< 10	1.4	370	< 3	47,000	860	< 20	9,400	140,000	< 20	680
	09/01/05	< 100	5.4	3.6 J	< 1	110,000	< 10	< 1	1,600	< 3	100,000	2,900	< 20	22,000 J	540,000	< 20	1,880
	06/01/05	< 100	6.9	6.82	< 1	83,000	< 10	< 1	230	< 3	55,000	1,100	< 20	11,000 J	170,000	< 20	810
	12/21/04	NA	NA	7.47	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/17/04	NA	5.9	NA	< 1	NA	< 10	< 1	210	< 3	NA	2,100	< 20	NA	NA	< 20	1,550
	08/13/04	NA	< 5	NA	< 1	NA	< 10	< 1 U	15,000	< 3	NA	NA	< 20	NA	NA	< 20	23,700
	05/28/04	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	970
	06/11/03	NA	9	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	4,070
	03/20/03	NA	**11**	NA	< 1	NA	1.2	1.1	NA	< 3	NA	NA	3.9	NA	NA	< 10	5,730
	12/11/02	NA	**11**	NA	< 1	NA	3	1.3	NA	< 3	NA	NA	3.3	NA	NA	< 20	8,240
Total Metals [3]																	
610SP01	06/07/07	520,000	720	NA	NA	NA	NA	NA	1,000,000	NA	NA	12,000	NA	NA	NA	NA	NA
	08/17/06	29,000	6.4	NA	< 1	270,000 J	110	35	57,000	55	460,000	4,800	170	88,000	3,800,000	110	NA
	03/21/06	170 J	< 5	NA	< 1	52,000	< 10	< 1	1,800	< 3	40,000	1,600	< 20	11,000	140,000	< 20	NA
	09/01/05	16,000	19	NA	< 1	230,000	120	28	37,000	100	360,000	2,800	230	98,000	3,500,000	150	NA
	06/01/05	7,800	13	NA	< 1	67,000	38	12	17,000	41	77,000	550	63	36,000	230,000	58	NA
	12/21/04	NA	NA	11.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/17/04	NA	34	NA	< 1	NA	180	44	59,000	70	NA	1,100	270	NA	NA	130 J+	NA
	08/13/04	NA	17	NA	< 1	NA	110	36	41,000	45	NA	NA	130	NA	NA	74	NA
	03/16/04	NA	11	NA	< 1	NA	11	1.3	NA	24	NA	NA	37	NA	NA	76	800
DUP1209031A	12/09/03	NA	< 5	NA	< 1	NA	23	< 1	NA	9.7	NA	NA	81	NA	NA	110 J+	2,660
610SP01CL	12/09/03	NA	220	NA	5.5	NA	1,000	320	NA	300	NA	NA	1,400	NA	NA	920	2,800 QB-01
	08/21/03	NA	23	NA	1.2	NA	87	18	NA	190	NA	NA	330	NA	NA	300	2,580
610SP02	03/21/06	1,900 J	< 5	NA	< 1	72,000	< 10	22	6,700	< 3	49,000	1,000	< 20	10,000	140,000	26	NA
	09/01/05	3,000	7.4	NA	< 1	120,000	14	5.0	7,500	9.9	110,000	3,300	21	23,000	590,000	28	NA
	06/01/05	6,500	9.8	NA	< 1	93,000	29	9.1	15,000	20	58,000	1,400	34	11,000	160,000	49	NA
	12/21/04	NA	NA	10.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/17/04	NA	20	NA	< 1	NA	48	14	26,000	25	NA	2,500	56	NA	NA	72 J+	NA
	08/13/04	NA	< 5	NA	< 1	NA	74	29	50,000	19	NA	NA	77	NA	NA	26	NA
	03/16/04	NA	5.4	NA	< 1	NA	23	1.4	NA	8.8	NA	NA	48	NA	NA	85	1,400
	12/09/03	NA	< 5	NA	< 1	NA	12	2.3	NA	16	NA	NA	25	NA	NA	74 J+	5,720
	08/21/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	6.4	NA	NA	< 20	NA	NA	< 20	11,900

Notes

1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in their respective quarterly report.

2 - Groundwater cleanup levels were taken from the *Revised Final Corrective Action Plan for the Commissary/Post Exchange Study Area, Presidio of San Francisco, California* (Treadwell & Rollo, 2006).

3 - The cleanup levels listed for metals, do not apply to total metals.

All metal results represent dissolved metals, unless indicated as "total" for total metal results.

Concentrations in **BOLD** indicate dissolved metals concentrations which exceed applicable cleanup levels. CAP cleanup levels apply only to dissolved concentrations.

-- cleanup level not established

µg/L - micrograms per liter

mg/L - milligrams per liter

NA - Not analyzed

CL suffix denotes a quality control duplicate sample was sent to the control laboratory.

Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.

Table 11 in the main report identifies current and historical data qualifiers.

Table A-16-6
Results of Dissolved Gas and TOC Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Ethane	Ethene	Methane	TOC
	Analytical Method[1]	RSK 175	RSK 175	RSK 175	SW9060
		mg/L	mg/L	mg/L	mg/L
600GW101	12/01/05	< 0.005	< 0.005	14 J-	23
	09/01/05	< 0.005	< 0.005	11 J-	12
	06/01/05	< 0.005	< 0.005	10	5.6 J+
DUP0601053A	06/01/05	< 0.005	< 0.005	10	9.6 J+
	03/21/05	< 0.005	< 0.005	10	11
	12/16/04	< 0.005	< 0.005	15	NA
600GW102	04/06/05	< 0.005	< 0.005	4.6	8.8
600GW104	04/11/05	< 0.005	< 0.005	0.052	3.9
600GW105	12/01/05	< 0.005	< 0.005	0.46	6.1
	09/01/05	< 0.005	< 0.005	0.69	6
	06/01/05	< 0.005	< 0.005	0.85	5.9
	03/22/05	< 0.005	< 0.005	0.75	4.6
	12/16/04	< 0.005	< 0.005	0.49	NA
600GW106	12/01/05	< 0.005	< 0.005	0.1	2.3
	09/01/05	< 0.005	< 0.005	0.061	2.1
	06/01/05	< 0.005	< 0.005	0.008	2.1
	03/29/05	< 0.005	< 0.005	0.29	2.4
600GW108	11/30/05	< 0.005	< 0.005	0.09	1.4
DUP1130051A	11/30/05	< 0.005	< 0.005	0.095	1.2
600GW108CL	11/30/05	< 0.0005 UU	< 0.0015 UU	0.045	1.6
	09/01/05	< 0.005	< 0.005	0.093	1.3
	06/01/05	< 0.005	< 0.005	< 0.005	< 0.5
	03/21/05	< 0.005	< 0.005	< 0.005	2.2
DUP0321052B	03/21/05	< 0.005	< 0.005	< 0.005	2.3
	12/17/04	< 0.005	< 0.005	< 0.005	NA
600GW109	04/01/05	< 0.005	< 0.005	0.47	2.1
610GW101	12/01/05	< 0.005	< 0.005	11 J-	4.7
	08/31/05	< 0.005	< 0.005	10	3.5
DUP0831051A	08/31/05	< 0.005	< 0.005	10	3
	06/02/05	< 0.005	< 0.005	9.5	3.4 J+
	03/21/05	< 0.005	< 0.005	7.3	3.8
	12/15/04	< 0.005	< 0.005	8.4	3.5
DUP1215041A	12/15/04	< 0.005	< 0.005	9	3.4
610GW101CL	12/15/04	0.00071	< 0.0015 U	5.9	3.8
610GW102	12/01/05	< 0.005	< 0.005	12 J-	3.8
	08/31/05	< 0.005	< 0.005	11	4.7
	06/02/05	< 0.005	< 0.005	7.9	4.9 J+
	03/31/05	< 0.005	< 0.005	3.8	5.3
DUP0331052C	03/31/05	< 0.005	< 0.0015 U	2.5	1.3
	12/15/04	< 0.005	< 0.005	14	6.2

Table A-16-6
Results of Dissolved Gas and TOC Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Ethane	Ethene	Methane	TOC
	Analytical Method[1]	RSK 175	RSK 175	RSK 175	SW9060
		mg/L	mg/L	mg/L	mg/L
610GW103	12/01/05	< 0.005	< 0.005	1.8	4.8
	09/01/05	< 0.005	< 0.005	5.6 J-	4.5
DUP0901051A	09/01/05	< 0.005	< 0.005	5.5 J-	4.2
	06/02/05	< 0.005	< 0.005	3.3	5 J+
	03/22/05	< 0.005	< 0.005	0.097	5.6
	12/16/04	< 0.005	< 0.005	2.2	4.9
610SP01	09/01/05	< 0.005	< 0.005	0.37	4.7
	06/01/05	< 0.005	< 0.005	0.23	5.7 J+
	12/17/04	< 0.005	< 0.005	0.29	4
610SP02	09/01/05	< 0.005	< 0.005	1.9	4.2
	06/01/05	< 0.005	< 0.005	0.57	5.2 J+
	12/17/04	< 0.005	< 0.005	0.67	4

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Fourth Quarter 2004.
mg/L - milligrams per liter
NA - Not analyzed
TOC - Total Organic Carbon
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 11 in the main report identifies current and historical data qualifiers.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.

Table A-16-7
Results of Arsenic Speciation Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Inorganic Arsenic (As)	Arsenite (As III)	Arsenate (As V) [2]	Percentage of As III	Percentage of As V
	Analytical Method[1]	**1632M**	**1632M**	**1632M**	--	--
		(µg/L)	(µg/L)	(µg/L)	%	%
Cleanup Levels [3]		**10**	--	--	--	--
600GW101	09/01/05	1.3 J	0.8 J	0.5 J	62	38
	06/01/05	2.12	1.72	0.4 B	81	19
DUP0601053A	06/01/05	2.34	1.74	0.6	74	26
	03/21/05	3.16	3.66	< 0.025 U	>99	<1
	12/22/04	2.46	2.29	0.17	93	7
600GW102	04/06/05	1.14	0.162	0.978	14	86
600GW103	04/11/05	3.21	2.19	1.02	68	32
600GW104	04/11/05	2.18	0.791	1.39	36	64
600GW105	09/01/05	NA	NA	NA	NA	NA
	03/22/05	NA	NA	NA	NA	NA
	12/22/04	0.931	0.591	0.34	63	37
600GW106	09/01/05	NA	NA	NA	NA	NA
	03/29/05	NA	NA	NA	NA	NA
	12/22/04	0.441	< 0.03 U	0.41	7	93
600GW107	04/11/05	NA	NA	NA	NA	NA
600GW108	09/01/05	NA	NA	NA	NA	NA
	03/21/05	NA	NA	NA	NA	NA
	12/22/04	0.446	< 0.03 B U	0.446	6	94
600GW109	04/01/05	NA	NA	NA	NA	NA
610GW101	08/31/05	3.6 J	3.8 J	< 1 JU	>99	<1
DUP0831051A	08/31/05	4.4 J	4.2 J	< 1 JU	>99	<1
	06/02/05	3.34	2.76	0.58	83	17
	03/21/05	1.51	1.21	0.302	80	20
DUP0321052A	03/21/05	1.68	1.67	< 0.025 U	99	1
	12/21/04	2.60	1.86	0.739	72	28
DUP1221043A	12/21/04	2.46	2.03	0.43	83	17
610GW102	08/31/05	7.4 J	8.3 J J-	< 1 JU	>99	<1
	06/02/05	6.39	5.95	0.44 B	93	7
	03/31/05	6.52	4.14	2.38	63	37
DUP0331052C	03/31/05	6.01	5.04	0.973	99	1
	12/21/04	4.96	3.82	1.14	77	23
610GW103	09/01/05	7.41 J	6.85 J	0.56 J	92	8
DUP0901051A	09/01/05	8 J	7.72 J	0.28 BJ	97	3
	06/02/05	9.43	8.57	0.86	91	9
	03/22/05	4.60	2.12	2.48	46	54
	12/21/04	10.00	8.26	1.75	83	17
610SP01	09/01/05	7.4 J	6.15 J	1.25 J	82	17
	06/01/05	7.6	6.28	1.32	83	17
	12/21/04	5.72	5.38	0.338	94	6
(Total)	12/21/04	11.10	10.5	0.559	95	5

Table A-16-7
Results of Arsenic Speciation Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Inorganic Arsenic (As)	Arsenite (As III)	Arsenate (As V) [2]	Percentage of As III	Percentage of As V
	Analytical Method[1]	**1632M**	**1632M**	**1632M**	--	--
		(µg/L)	(µg/L)	(µg/L)	%	%
610SP02	09/01/05	3.6 J	3.7 J J-	< 0.5 JU	>99	<1
	06/01/05	6.82	5.37	1.45	79	21
	12/21/04	7.47	7.63	< 0.007	>99	<1
(Total)	12/21/04	10.20	8.02	2.16	79	21

Notes

1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001.

2 - The concentration of As V was determined by the laboratory by subtracting the As III concentration from the inorganic As concentration. As III has been detected at greater concentrations than inorganic As, due to analytical variability. As V is reported as non-detect when As III is detected at a greater concentration than inorganic As.

3 - Groundwater cleanup levels were taken from the *Revised Final Corrective Action Plan for the Commissary/Post Exchange Study Area, Presidio of San Francisco, California* (Treadwell & Rollo, 2006).

µg/L - micrograms per liter
mV - millivolts
NA - Not analyzed

All Third Quarter 2005 arsenic speciation results were qualified as estimated (J) by the laboratory because the samples were received at a temperature slightly higher the require 4 degrees Celsius. Additionally, Third Quarter 2005 As III results from 610GW102 and 610SP02 were qualified with a J- by DataVal because the continuing calibration verification percent difference failed QC limits, which indicates the sample result is biased low. Several other Third Quarter 2005 results were qualified by DataVal with either a (U) or (J) in addition to the (J) qualifier applied by the laboratory. These qualifiers are defined in Table 11 of the main text.

Concentrations in **BOLD** indicate an exceedance of applicable cleanup levels.
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Analytical results represent dissolved arsenic, unless indicated as "total" in the left-hand column, for total arsenic results.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-16-8
Groundwater Elevation Summary
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
600GW101	08/14/06	NM	10.66	NM [2]	MW
	05/22/06	4.09	10.66	6.57	MW
	03/06/06	3.25	10.66	7.41	MW
	11/28/05	4.00	10.66	6.66	MW
	08/29/05	4.54	10.66	6.12	MW
	05/23/05	3.52	10.66	7.14	MW
	03/14/05	3.94	10.66	6.72	MW
	12/13/04	3.73	10.66	6.93	MW
	08/09/04	4.65	10.66	6.01	MW
	05/24/04	4.43	10.66	6.23	MW
	03/08/04	4.04	10.66	6.62	MW
	12/01/03	4.38	10.66	6.28	MW
	08/11/03	4.52	10.66	6.14	MW
	06/02/03	4.51	10.66	6.15	MW
	03/10/03	3.21	10.66	7.45	MW
	12/02/02	4.62	10.66	6.04	MW
600GW102	06/04/07	4.31	10.10	5.79	MW
	08/14/06	4.14	10.10	5.96	MW
	05/22/06	3.71	10.10	6.39	MW
	03/06/06	3.14	10.10	6.96	MW
	11/28/05	3.73	10.10	6.37	MW
	08/29/05	4.18	10.10	5.92	MW
	05/23/05	2.90	10.10	7.20	MW
	03/14/05	3.67	10.10	6.43	MW
	12/13/04	3.64	10.10	6.46	MW
	08/09/04	4.35	10.10	5.75	MW
	05/24/04	3.39	10.10	6.71	MW
	03/08/04	3.88	10.10	6.22	MW
	12/01/03	4.12	10.10	5.98	MW
	08/11/03	4.12	10.10	5.98	MW
	06/02/03	4.21	10.10	5.89	MW
	03/10/03	2.75	10.10	7.35	MW
	12/02/02	4.21	10.10	5.89	MW
600GW103	06/04/07	2.90	10.31	7.41	MW
	08/14/06	3.05	10.31	7.26	MW
	05/22/06	3.23	10.31	7.08	MW
	03/06/06	2.46	10.31	7.85	MW
	11/28/05	3.17	10.31	7.14	MW
	08/29/05	2.81	10.31	7.50	MW
	05/23/05	2.50	10.31	7.81	MW
	03/14/05	2.95	10.31	7.36	MW
	12/13/04	2.96	10.31	7.35	MW
	08/09/04	2.94	10.31	7.37	MW
	05/24/04	2.90	10.31	7.41	MW
	03/08/04	3.03	10.31	7.28	MW
	12/01/03	3.41	10.31	6.90	MW
	08/11/03	2.86	10.31	7.45	MW
	06/02/03	2.95	10.31	7.36	MW
	03/10/03	2.79	10.31	7.52	MW
	12/02/02	3.37	10.31	6.94	MW

Table A-16-8
Groundwater Elevation Summary
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
600GW104	06/04/07	3.57	10.48	6.91	MW
	08/14/06	4.21	10.48	6.27	MW
	05/22/06	3.58	10.48	6.90	MW
	03/06/06	2.24	10.48	8.24	MW
	11/28/05	3.45	10.48	7.03	MW
	08/29/05	3.72	10.48	6.76	MW
	05/23/05	2.93	10.48	7.55	MW
	03/14/05	3.25	10.48	7.23	MW
	12/13/04	3.00	10.48	7.48	MW
	08/09/04	3.35	10.48	7.13	MW
	05/24/04	3.94	10.48	6.54	MW
	03/08/04	3.20	10.48	7.28	MW
	12/01/03	3.51	10.48	6.97	MW
	08/11/03	3.08	10.48	7.40	MW
	06/02/03	2.98	10.48	7.50	MW
	03/10/03	2.95	10.48	7.53	MW
	12/02/02	3.58	10.48	6.90	MW
600GW105	06/04/07	2.93	17.64	14.71	MW
	08/14/06	3.00	17.64	14.64	MW
	05/22/06	3.17	17.64	14.47	MW
	03/06/06	3.48	17.64	14.16	MW
	11/28/05	3.91	17.64	13.73	MW
	08/29/05	3.45	17.64	14.19	MW
	05/23/05	3.20	17.64	14.44	MW
	03/14/05	3.15	17.64	14.49	MW
	12/13/04	4.24	17.64	13.40	MW
	08/09/04	4.15	17.64	13.49	MW
	05/24/04	4.29	17.64	13.35	MW
	03/08/04	3.47	17.64	14.17	MW
	12/01/03	4.83	17.64	12.81	MW
	08/11/03	4.87	17.64	12.77	MW
	06/02/03	5.55	17.64	12.09	MW
	03/10/03	3.30	17.64	14.34	MW
	12/02/02	4.60	17.64	13.04	MW
600GW106	06/04/07	3.21	16.04	12.83	MW
	08/14/06	4.18	16.04	11.86	MW
	05/22/06	4.15	16.04	11.89	MW
	03/06/06	3.34	16.04	12.70	MW
	11/28/05	3.70	16.04	12.34	MW
	08/29/05	3.58	16.04	12.46	MW
	05/23/05	3.35	16.04	12.69	MW
	03/14/05	3.45	16.04	12.59	MW
	12/13/04	4.37	16.04	11.67	MW
	08/09/04	3.88	16.04	12.16	MW
	05/24/04	4.00	16.04	12.04	MW
	03/08/04	3.45	16.04	12.59	MW
	12/01/03	4.51	16.04	11.53	MW
	08/11/03	4.41	16.04	11.63	MW
	06/02/03	4.51	16.04	11.53	MW
	03/10/03	3.22	16.04	12.82	MW
	12/02/02	4.50	16.04	11.54	MW

Table A-16-8
Groundwater Elevation Summary
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
600GW107	06/04/07	4.61	16.76	12.15	MW
	08/14/06	4.34	16.76	12.42	MW
	05/22/06	3.59	16.76	13.17	MW
	03/06/06	3.29	16.76	13.47	MW
	11/28/05	4.72	16.76	12.04	MW
	08/29/05	4.47	16.76	12.29	MW
	05/23/05	3.80	16.76	12.96	MW
	03/14/05	3.62	16.76	13.14	MW
	12/13/04	4.58	16.76	12.18	MW
	08/09/04	5.19	16.76	11.57	MW
	05/24/04	4.72	16.76	12.04	MW
	03/08/04	4.94	16.76	11.82	MW
	12/01/03	5.23	16.76	11.53	MW
	08/11/03	4.98	16.76	11.78	MW
	06/02/03	4.48	16.76	12.28	MW
	03/10/03	4.08	16.76	12.68	MW
	12/02/02	4.82	16.76	11.94	MW
600GW108	06/04/07	5.27	12.29	7.02	MW
	08/14/06	5.35	12.29	6.94	MW
	05/22/06	4.88	12.29	7.41	MW
	03/06/06	3.46	12.29	8.83	MW
	11/28/05	5.11	12.29	7.18	MW
	08/29/05	5.20	12.29	7.09	MW
	05/23/05	3.98	12.29	8.31	MW
	03/14/05	3.90	12.29	8.39	MW
	12/13/04	4.20	12.29	8.09	MW
	08/09/04	4.79	12.29	7.50	MW
	05/24/04	4.72	12.29	7.57	MW
	03/08/04	4.41	12.29	7.88	MW
	12/01/03	4.12	12.29	8.17	MW
	08/11/03	4.72	12.29	7.57	MW
	06/02/03	4.39	12.29	7.90	MW
	03/10/03	3.82	12.29	8.47	MW
	12/02/02	4.23	12.29	8.06	MW
600GW109	06/04/07	4.43	11.67	7.24	MW
	08/14/06	4.35	11.67	7.32	MW
	05/22/06	3.96	11.67	7.71	MW
	03/06/06	3.40	11.67	8.27	MW
	11/28/05	4.30	11.67	7.37	MW
	08/29/05	4.44	11.67	7.23	MW
	05/23/05	3.70	11.67	7.97	MW
	03/14/05	3.54	11.67	8.13	MW
	12/13/04	4.05	11.67	7.62	MW
	08/09/04	4.71	11.67	6.96	MW
	05/24/04	4.46	11.67	7.21	MW
	03/08/04	3.90	11.67	7.77	MW
	12/01/03	4.87	11.67	6.80	MW
	08/11/03	4.65	11.67	7.02	MW
	06/02/03	4.31	11.67	7.36	MW
	03/10/03	3.85	11.67	7.82	MW
	12/02/02	4.52	11.67	7.15	MW

Table A-16-8
Groundwater Elevation Summary
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
610GW101	06/04/07	3.60	9.91	6.31	MW
	08/14/06	3.37	9.91	6.54	MW
	05/22/06	2.97	9.91	6.94	MW
	03/06/06	1.95	9.91	7.96	MW
	11/28/05	3.07	9.91	6.84	MW
	08/29/05	3.54	9.91	6.37	MW
	05/23/05	2.61	9.91	7.30	MW
	03/14/05	2.90	9.91	7.01	MW
	12/13/04	2.93	9.91	6.98	MW
	08/09/04	5.21	9.91	4.70	MW
	05/24/04	3.40	9.91	6.51	MW
	03/08/04	3.17	9.91	6.74	MW
	12/01/03	3.28	9.91	6.63	MW
	08/11/03	3.49	9.91	6.42	MW
	06/02/03	3.55	9.91	6.36	MW
	03/10/03	2.39	9.91	7.52	MW
	12/02/02	3.44	9.91	6.47	MW
	08/26/02	3.68	9.91	6.23	MW
	05/28/02	3.59	9.91	6.32	MW
	05/28/02	3.63	9.91	6.28	MW
	03/04/02	3.85	9.91	6.06	MW
	03/04/02	3.32	9.91	6.59	MW
	11/26/01	3.25	9.91	6.66	MW
	11/26/01	3.25	9.91	6.66	MW
	08/27/01	3.60	9.91	6.31	MW
	08/27/01	3.64	9.91	6.27	MW
610GW102	06/04/07	4.04	10.29	6.25	MW
	08/14/06	3.84	10.29	6.45	MW
	05/22/06	3.38	10.29	6.91	MW
	03/06/06	2.44	10.29	7.85	MW
	11/28/05	3.50	10.29	6.79	MW
	08/29/05	4.00	10.29	6.29	MW
	05/23/05	3.00	10.29	7.29	MW
	03/14/05	3.30	10.29	6.99	MW
	12/13/04	3.42	10.29	6.87	MW
	08/09/04	4.13	10.29	6.16	MW
	05/24/04	3.86	10.29	6.43	MW
	03/08/04	3.69	10.29	6.60	MW
	12/01/03	3.82	10.29	6.47	MW
	08/11/03	3.92	10.29	6.37	MW
	06/02/03	4.10	10.29	6.19	MW
	03/10/03	2.75	10.29	7.54	MW
	12/02/02	3.94	10.29	6.35	MW
	08/26/02	4.16	10.29	6.13	MW
	05/28/02	4.08	10.29	6.21	MW
	05/28/02	4.12	10.29	6.17	MW
	03/04/02	5.02	10.29	5.27	MW
	03/04/02	3.83	10.29	6.46	MW
	11/26/01	3.72	10.29	6.57	MW
	11/26/01	3.74	10.29	6.55	MW
	08/27/01	4.11	10.29	6.18	MW
	08/27/01	4.13	10.29	6.16	MW

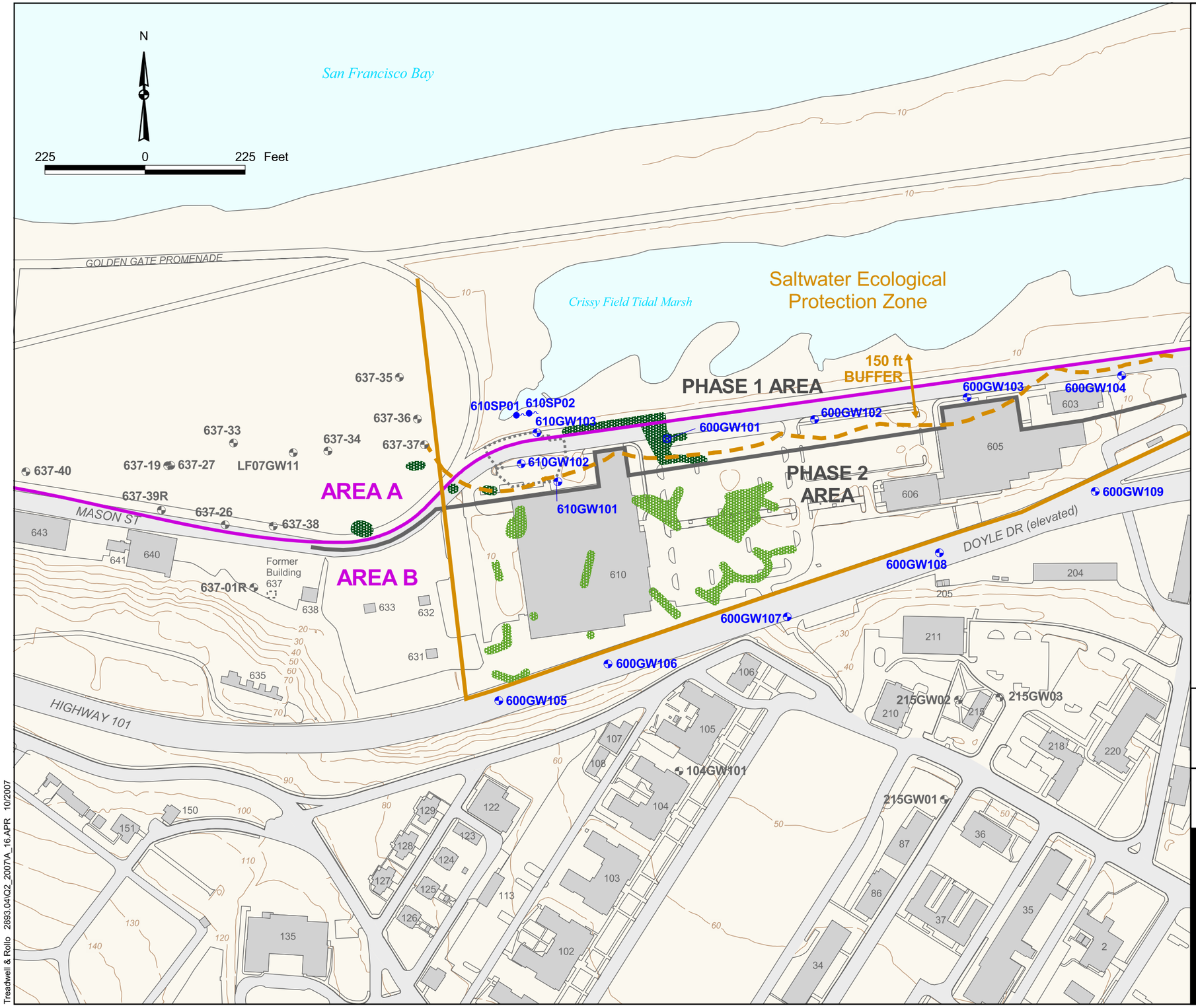
Table A-16-8
Groundwater Elevation Summary
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
610GW103	06/04/07	5.04	11.13	6.09	MW
	08/14/06	4.95	11.13	6.18	MW
	05/22/06	4.46	11.13	6.67	MW
	03/06/06	3.51	11.13	7.62	MW
	11/28/05	4.27	11.13	6.86	MW
	08/29/05	5.13	11.13	6.00	MW
	05/23/05	4.00	11.13	7.13	MW
	03/14/05	4.30	11.13	6.83	MW
	12/13/04	4.45	11.13	6.68	MW
	08/09/04	3.65	11.13	7.48	MW
	05/24/04	4.85	11.13	6.28	MW
	03/08/04	4.78	11.13	6.35	MW
	12/01/03	4.67	11.13	6.46	MW
	08/11/03	4.88	11.13	6.25	MW
	06/02/03	4.19	11.13	6.94	MW
	03/10/03	3.20	11.13	7.93	MW
	12/02/02	4.79	11.13	6.34	MW
	08/26/02	5.26	11.13	5.87	MW
	05/28/02	5.13	11.13	6.00	MW
	05/28/02	5.11	11.13	6.02	MW
	03/04/02	3.37	11.13	7.76	MW
	03/04/02	4.94	11.13	6.19	MW
	11/26/01	4.83	11.13	6.30	MW
	11/26/01	4.85	11.13	6.28	MW
	08/27/01	5.29	11.13	5.84	MW
	08/27/01	5.33	11.13	5.80	MW
610SP01	06/04/07	Not Flowing[3]	--	--	Surface
	08/14/06	Flowing	--	--	Surface
	05/22/06	Not Flowing	--	--	Surface
	03/06/06	Submerged[4]	--	--	Surface
	11/28/05	Submerged[4]	--	--	Surface
	08/29/05	Flowing	--	--	Surface
	05/23/05	Not flowing	--	--	Surface
	03/14/05	Not flowing	--	--	Surface
	12/13/04	Not flowing	--	--	Surface
	08/09/04	Not flowing	--	--	Surface
	05/24/04	Not flowing	--	--	Surface
	03/08/04	Not flowing	--	--	Surface
	12/01/03	Not flowing	--	--	Surface
	08/11/03	Not flowing	--	--	Surface
	06/02/03	Not flowing	--	--	Surface
610SP02	06/04/07	Submerged[4]	--	--	Surface
	08/14/06	Flowing	--	--	Surface
	05/22/06	Not Flowing	--	--	Surface
	03/06/06	Submerged[4]	--	--	Surface
	11/28/05	Submerged[4]	--	--	Surface
	08/29/05	Flowing	--	--	Surface
	05/23/05	Not flowing	--	--	Surface
	03/14/05	Not flowing	--	--	Surface
	12/13/04	Not flowing	--	--	Surface
	08/09/04	Not flowing	--	--	Surface

Table A-16-8
Groundwater Elevation Summary
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
610SP02	05/24/04	Not flowing	--	--	Surface
	03/08/04	Not flowing	--	--	Surface
	12/01/03	Not flowing	--	--	Surface
	08/11/03	Not flowing	--	--	Surface
	06/02/03	Not flowing	--	--	Surface

Notes
1 - All depth to water measurements are an average of three measurements recorded in the field.
2 - Well was abandoned prior to Phase I CAP implementation.
3 - Seep location at water's edge.
4 - Seep sampling location was submerged under standing water.
MW- Monitoring well
feet PLLW - feet above Presidio lower low water vertical datum
-- Groundwater level measurements were not collected on a tidal schedule beginning with Fourth Quarter 2003.



LEGEND

- 610GW102 A1 Zone Groundwater Monitoring Well
- 600GW101 Abandoned A1 Zone Groundwater Monitoring Well
- 610SP01 Surface Water Seep Location
- 637-34 Adjacent Study Area Well
- Commissary Seeps Interim Source Removal Excavation
- Saltwater Ecological Protection Zone Boundary (RWQCB, 2003). (Areas north and east of boundary lie within zone)
- Approximate 150 ft Buffer Zone
- Area A / Area B Boundary
- Effective Phase 1 Area/ Phase 2 Area Boundary
- Topographic Contour (Contour Interval : 10 ft)
- Approximate Extent of Phase 1 Impacted Soil
- Approximate Extent of Phase 2 Impacted Soil
- 610 Building and Number

Notes:
The excavation boundary is defined in the Commissary Seeps Interim Removal Action Report (Treadwell & Rollo, 2002a).

Groundwater Monitoring Well 600GW101 was destroyed in July 2006.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datum: (topography) North American Vertical Datum, NAVD88

COMMISSARY/PX AREA SITE PLAN AND PHASE 1 AND 2 CORRECTIVE ACTION AREAS

Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
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P.O. Box 29052
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fax 415/561-5315

October 2007

FIGURE A-16-1

Treadwell & Rollo 2893.04\Q2_2007\A_16.APR 10/2007

N

225 0 225 Feet

San Francisco Bay

GOLDEN GATE PROMENADE

Crissy Field Tidal Marsh

MASON ST

HIGHWAY 101

DOYLE DR (elevated)

Former Building 637

610SP01 Not Flowing

610SP02 Submerged

610GW103 6.09

610GW102 6.25

610GW101 6.31

600GW101

600GW102 5.79

600GW103 7.41

600GW104 6.91

600GW105 14.71

600GW106 12.83

600GW107 12.15

600GW108 7.02

600GW109 7.24

104GW101 NM

215GW01 NM

215GW02 NM

215GW03 NM

LF07GW11 NM

637-01R

637-19 NM

637-26 NM

637-27 NM

637-33

637-34 NM

637-35 NM

637-36 NM

637-37 NM

637-38 NM

637-39R NM

637-40

LEGEND

610GW101 6.31	A1 Zone Groundwater Monitoring Well June 2007 Groundwater Elevation
600GW101	Abandoned A1 Zone Groundwater Monitoring Well
637-35	Adjacent Study Area A1 Zone Groundwater Monitoring Well
NM	Not Measured. Well approved for removal from the groundwater monitoring program.
637-19	Adjacent Study Area A2 Zone Groundwater Monitoring Well
610SP01	Surface Water Seep Location
	Approximate Direction of Groundwater Flow
	Groundwater Contour (Contour Interval : 1 ft)
	Commissary Seeps Interim Source Removal Excavation
	Topographic Contour (Contour Interval : 10 ft)
610	Building and Number

Notes:
Groundwater elevation data collected on 4 June 2007.

Groundwater Monitoring Well 600GW101 was destroyed in July 2006.

The excavation boundary is defined in the Commissary Seeps Interim Removal Action Report (Treadwell & Rollo, 2002a).

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

COMMISSARY/PX AREA
4 JUNE 2007
GROUNDWATER ELEVATION MAP
A1 ZONE WELLS

Treadwell&Rollo

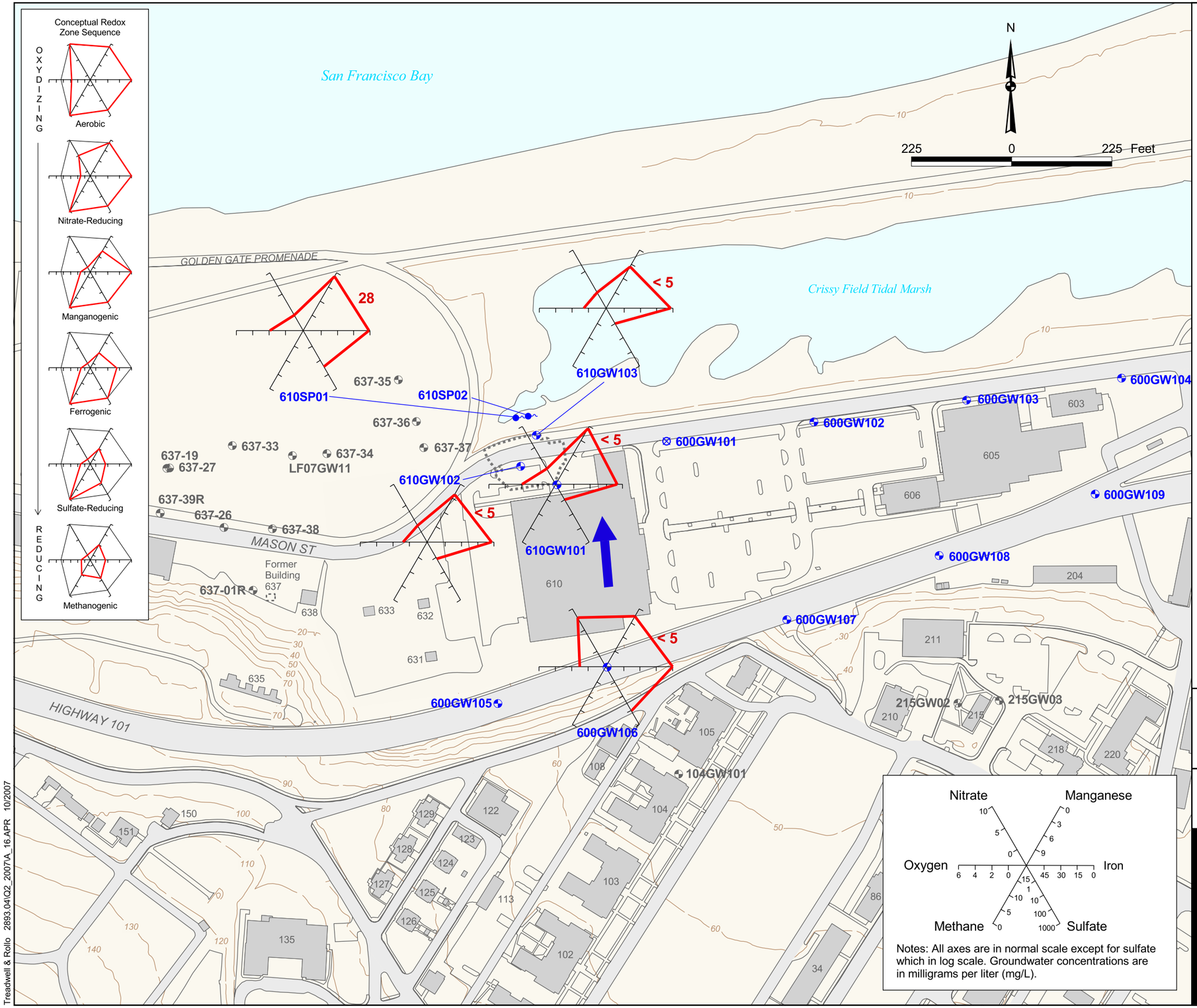
THE PRESIDIO TRUST

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October 2007

FIGURE A-16-2

Treadwell & Rollo 2893.04\Q2_2007A_16.APR 10/2007



LEGEND

- 610GW101 — A1 Zone Groundwater Monitoring Well
- 600GW101 — Abandoned A1 Zone Groundwater Monitoring Well
- 610SP01 — Surface Water Seep Location
- 637-34 — Adjacent Study Area Well
- Approximate Direction of Groundwater Flow
- Commissary Seeps Interim Source Removal Excavation
- Topographic Contour (Contour Interval : 10 ft)
- 610 — Building and Number
- Q2-2007 Groundwater Concentrations
- 28 — Q2-2007 Dissolved Arsenic Concentration (µg/L) (EPA Method SW6010/SW6020)

Notes:
The excavation boundary is defined in the Commissary Seeps Interim Removal Action Report (Treadwell & Rollo, 2002a).

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datum: (topography) North American Vertical Datum, NAVD88

Notes: All axes are in normal scale except for sulfate which in log scale. Groundwater concentrations are in milligrams per liter (mg/L).

COMMISSARY/PX AREA REDOX DIAGRAMS FOR SHALLOW GROUNDWATER

Treadwell&Rollo

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October 2007

FIGURE A-16-3

Treadwell & Rollo 2893.04\Q2_2007\A_16.APR 10/2007

Second Quarter 2007

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Con / PX | Well No.: 600 GW 106
Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: P. Cornish | Sampled by: P. Cornish | Date: 6/7/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 10.21
Depth to Water (WL, ft. below TOC): 4.01
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type: Peri-
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft) ~10'
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate | Purge Rate: 250ml/min

3.96 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556 | Hach Turb.

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
0919 / Int.	9.7	13.96	1.01	959 MS	210	14	DTW = 4.01
0921 / 750 ml	9.7	13.9	0.78	946	206	4.2	DTW = 4.20
0924 / 1500	9.7	13.8	1.00	936	205	2.5	DTW = 4.49
0927 / 2250	6.7	13.7	1.15	932	205	2.7	DTW = 4.64
0930 / 3000	6.7	13.7	1.17	930	205	2.7	DTW = 4.83
0933 / 3750	6.7	13.7	1.02	927	205	2.7	DTW = 4.91
/							
/							
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/							
/							

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other Onsite Tank

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: 6/7/07 / 0940

Purging Equipment: Pump - Type: Geotech PeriPump | Bailer - Type: Disp. | Other:
Sample Filtered: (Yes) / No | Filtered Sample Analysis: Dis. Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
600 GW 106	1x 500 ml poly NP	C&T	2127	
	1x 500 ml poly HNO_3			
	1x 250 ml poly NP			
	6x 40ml VOA HCL			

QUALITY CONTROL SAMPLES 1L Amber NP.

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Com / PX | Well No.: 610 GW 101

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: P. Cornish | Date: 6/6/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 5.86

Depth to Water (WL, ft. below TOC): 3.58

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type: peri pump
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft):
[X] Near Bottom Depth (ft): ~5.5'
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 10 min

Recharge Rate: | Purge Rate: 250 ml/min

3 L ~~gals~~ ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556 / Hach Turb.

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1200 / 750 ml	6.82	18.25	2.42 ~~2.74~~	1284 µS	120.1	9.86	3.59 = DTW
1203 / 1500 ml	~~7.18~~	19.46	1.96	980	-97	10.2	3.59
1206 / 2250 ml	7.2	18.6	2.07	943	-111	8.29	3.59
1209 / 3000 ml	7.2	18.6	1.99	931	-122	5.23	3.59
~~1212~~ /							
/			Post DTW=	3.59			
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other Onsite Tank

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 6/6/07 / 1215

Purging Equipment: Pump - Type: Peri Pump - geotech | Bailer - Type: | Other:

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
610GW101	1 x 500 ml Poly NP	C+L	21627	
	1 x 500 ml Poly HNO3			
	1 x 250 ml Poly NP			
	6 x 40 ml HCL VOA			

QUALITY CONTROL SAMPLES 1 x 1L Amber NP.

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultants

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Comm/PX | Well No.: 610GW102

Project Number: 2993 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: P. Cornish | Date: 6/6/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC): 4.05

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type: Peri.
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft):
[X] Near Bottom Depth (ft): ~5.5'
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: 250 ml/min

~~gals~~ 2.5L ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556 / Hach Turb.

Time / Cleared or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	(ft.) DTW:	Comments
1335 / initial	7.02	17.85	1.70	804 µs	-45.7	3	4.10	
1338 / .750	7.03	18.01	0.79	805	-97.2	3	4.10	
1341 / 1.5	7.05	17.89	0.78	796	-90.8	2	4.11	
1344 / 2250	7.06	17.88	0.78	788	-92.3	1	4.10	
/								
/								
/								
/								
/								
/								
/								
/								
/								
/								
/								

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6/6/07 / 1350

Purging Equipment: Pump - Type: Peristaltic | Bailer - Type: | Other:

Sample Filtered: (Yes) No | Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
610GW102	6x40ml VOA HCl	CET	21602	
	1x1L Amber NP			
	1x500ml Poly NP			
	1x500ml Poly HNO3			

QUALITY CONTROL SAMPLES 1x250ml Poly NP

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultants

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site Area: COMM/PK | Well No.: 610GW103

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: S. Rose | Date: 6/7/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 6.90

Depth to Water (WL, ft. below TOC): 5.09

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type: Peripump
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft): ~60.5'
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 14 mins

Recharge Rate:

Purge Rate: 250 ml/min

3 ~~gals~~ ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556 / Hach Turb.

Time / (Liters or Gallons)	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	(~~TOC~~) DTW: Comments
1017 / init	~~6.8~~ 6.9	18.5	1.11	953 µS	92.6	26.7	5.32
1020 / 750	7.0	18.9	0.75	957	1.7	16.6	5.38
1023 / 1500	7.0	19.1	0.64	965	-79.2	60.0	5.34
1026 / 2250	7.1	19.1	0.60	964	-92.6	37.8	5.39
1029 / 3000	7.1	19.2	0.57	969	-98.3	22.2	5.41
/							
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/							

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Onsite Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6/7/07 / 1035

Purging Equipment: Pump - Type: Geotech Peripump | Bailer - Type: Disp. | Other

Sample Filtered: (Yes) No | Filtered Sample Analysis: Dissolved Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
610GW103	1x 500ml Poly NP	C&T	2127	
	1x 500 ml Poly NAOH			
	1x 250 ml Poly NP			
	6x 40ml Voa HCl			

QUALITY CONTROL SAMPLES

1x 1L Amber NP

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell & Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: COMM / PX Well No.: 6105P01

Project Number: ~~2893~~ ~~2893~~ 2893 Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish Sampled by: S. Rose, P. Cornish Date: 6/7/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC):

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other surface water point

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft) surface
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length ___ X Water Volume/ft ___ X No. Vols ___ = ___ gals CALCULATED PURGE VOLUME

Total Purge Time ___

Recharge Rate ___ Purge Rate ___ ___ gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556 / Hach Turb.

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1045 / —	5.10	16.4	1.92	987 µS	110	>1000	
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/							
/							

Comments ___ Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6/7/07 / 1045

Purging Equipment: Pump - Type: Peri. - used to filter water Bailer - Type ___ Other ___

Sample Filtered: (Yes) / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
6105P01	1x1L Amber NP	C&T	2127	
	6x40ml Vial HCl			
	2x500ml Poly HNO_3			
	1x500ml Poly NP			

QUALITY CONTROL SAMPLES 1x250ml Poly NP

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Comm / PX — Well No.: 610SP02

Project Number: 2893 — Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Comish — Sampled by: _____ — Date: 6/7/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC) :

Depth to Water (WL, ft. below TOC) :

Depth to free phase (FP, ft. below TOC) :

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type _____

[ ] Normal [ ] Pump \ Type _____

[ ] Modified (max 5 gpm) [ ] Other _____

PUMP INTAKE

[ ] Near top Depth (ft) _____

[ ] Near Bottom Depth (ft) _____

[ ] Other _____

PURGE VOLUME CALCULATION

_____ (Water Column Length) X _____ (Water Volume/ft) X _____ (No. Vols) = _____ gals CALCULATED PURGE VOLUME

Total Purge Time _____

Recharge Rate _____ Purge Rate _____

_____ gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type _____

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1050 /	* Self Sample point Submerged				No Samples taken per		client.
/							
/							
/							
/							
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/							
/							
/							
/							
/							
/							

Comments _____ Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled _____ /

Purging Equipment: Pump - Type _____ Bailer - Type _____ Other _____

Sample Filtered: Yes / No Filtered Sample Analysis: _____

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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BAKER BEACH DISTURBED AREAS 1 AND 2A
APPENDIX SECTION A-17
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2007
Presidio of San Francisco, California

1.0 INTRODUCTION AND BACKGROUND

Baker Beach Disturbed Area (BBDA)s 1 and 2A are located along the western coastline of the Presidio, south of the Golden Gate Bridge. The site is bordered by the Golden Gate Bridge Highway and Transportation District to the north, Merchant Road, and Lincoln Boulevard to the east and the Pacific Ocean to the west. BBDAs 1 and 2A are situated immediately west of Batteries Boutelle and Godfrey, and north of BBDA 2 (Figure 1). The site elevation ranges from approximately 10 to 250 feet above PLLW.

BBDAs 1 and 2A have been identified as "disturbed areas", where buried waste fill is present (Figure A-17-1). Based on a review of aerial photographs, BBDAs 1 and 2A received fill material intermittently between 1946 and 1973 (MACTEC, 2004). The fill material in BBDAs 1 and 2A is composed primarily of soil and debris fill containing concrete, asphalt, and metal debris (Figure A-17-1).

Fresh water seeps are present at various locations throughout the Coastal Bluffs (MACTEC, 2004a). On 21 and 22 April 2005, two piezometers were installed within the fill to monitor fresh water seeps at BBDA 1. The piezometers were designated as BB1PZ100 and BB1PZ101. An ephemeral seep, BB2ASW100, flows seasonally at the toe of the fill at BBDA 2A (A-17-1). Summaries of dissolved oxygen, general chemistry, TPH, and metals, PAH, and VOC results are presented in Table A-17-1 through A-17-4.

Remedial excavation was initiated following the Second Quarter 2007 and is currently being implemented. Monitoring and sampling of the fresh water seeps at BBDAs 1 and 2A will be discontinued until remedial construction activities have been completed. The piezometers will be abandoned as part of the remedial action. If surface water seeps are present following the excavation activities, then sampling points will be installed, if needed, and quarterly monitoring will resume.

2.0 SITE DESCRIPTION AND GEOLOGY

BBDAs 1 and 2A are located in the Coastal Groundwater Basin (Figure 1). At BBDA 1, two freshwater seeps, originating approximately mid-slope of BBDA 1, have been identified as jurisdictional wetlands (Trust, 2005). The seeps flow on the surface during the wet season but remain subsurface for the majority of the year. These seeps may be associated with localized

percolation of rainwater within the fill that discharges once it has encountered the underlying bedrock, groundwater moving along contacts between bedrock units of differing permeability, or typical bedrock fracture groundwater flow observed elsewhere on coastal bluffs at the Presidio (MACTEC, 2007a).

BBDA 2A is located north of BBDA 2 and south of BBDA 1. BBDA 2A extends from near the top of the bluff to the toe of the slope (Figure A-14-1). A seasonal seep (BB2ASW100) exists near the toe of the slope at BBDA 2A (MACTEC, 2007a). Groundwater flow is assumed to follow the general topographic trend westward toward the Pacific Ocean (Figure A-17-1).

The fill material at the sites is characterized as random mixtures of soil, chert, and serpentinite fragments, debris fill including building debris (red brick, concrete, glass, and wood) and glass, ceramics, and automotive parts (MACTEC, 2004).

The area in the vicinity of BBDAs 1 and 2A is a steeply sloping bluff with a narrow beach at its base. Surface drainage in the area is to the west, toward the Pacific Ocean. Vegetation in the area consists of grasses, shrubs, and trees.

Local geology is predominantly Franciscan Formation overlain by landslide deposits. The Franciscan Formation in the area consists primarily of serpentinite and minor amounts of sandstones, shales, and cherts; the overlaying landslide deposits generally consist of unstratified mixtures of bedrock fragments, sand, silt, and clay (Schlocker, 1974). The thickness of debris fill is estimated to be greater than 3.5 feet in this area. (MACTEC, 2004).

Ephemeral seeps are monitored at two locations at BBDA 1 (BB1PZ100 and BB1PZ101) and at the toe of the fill at BBDA 2A (BB2ASW100) (Figure A-17-1). Historical surface water monitoring data for BBDAs 1 and 2A are presented in the *Final Remedial Action Plan, Baker Beach Disturbed Areas 1, 1A, 2, and 2A, and Twenty-Seven Other Sites* (RAP3) (MACTEC, 2007a). As documented in RAP3, it is anticipated that removal of the fill material could alter the location(s) of the fresh water seep(s) located at BBDAs 1 and 2A.

3.0 REMEDIAL ACTION PLAN

RAP3 was released in June of 2007 (MACTEC, 2007a).

As documented in RAP3, fill material will be removed (excavation and over-excavation), from BBDAs 1 and 2A and confirmation sampling of excavations will be conducted to determine that the areas no longer pose a risk to human health or the environment from contaminants of concern (COCs). Based on the soil analytical results from previous investigations and the required cleanup level for the areas, COCs identified for analysis in confirmation samples at BBDAs 1 and 2A include TPH, pesticides, PAHs, PCBs, VOCs, dioxins and furans, and metals.

Existing piezometers BB1PZ100 and BB1PZ101 were abandoned following the Second Quarter 2007 and prior to the implementation of excavation activities at BBDAs 1 and 2A. If upon completion of excavation activities fresh water seeps are present, then monitoring will resume.

4.0 FRESH WATER SEEP MONITORING

BBDAs 1 and 2A were added to the Presidio-Wide Groundwater Monitoring Program in the Second Quarter 2006. Prior to that event, Site monitoring and sampling was performed and reported as part of the RAP3 activities. Two piezometers (BB1PZ100 and BB1PZ101) monitor water at BBDA 1 for general chemistry parameters, dissolved and total metals, OCPs, PAHs, TPHd and TPHfo. Additionally, one seep location is included in the monitoring program at BBDA 2A (BB2ASW100), however, this location was dry during both the First and Second Quarters 2007.

4.1 Fresh Water Seep-Level Measurements and Interpretation

Fresh water seep elevation measurements were collected on 26 February and 4 June 2007 during the First and Second Quarters 2007, respectively. The fresh water seep elevations at BBDAs 1 and 2A are shown on Figures A-17-1 and A-17-2. Water level meters were calibrated on 26 February and 4 June 2007 and the calibration logs can be found in Appendix B. Groundwater elevation field forms can be found in Appendix C.

Fresh water seep elevations at the BBDA 1 during the First Quarter 2007 ranged from 64.09 to 103.94 feet above PLLW in piezometers BB1PZ101 and BB1PZ100, respectively (Table A-17-5).

Fresh water seep elevations at the BBDA 1 during the Second Quarter 2007 ranged from 64.58 to 103.87 feet above PLLW in piezometers BB1PZ101 and BB1PZ100, respectively (Table A-17-5).

Ground water contours and flow directions for BBDAs 1 and 2A could not be calculated due to a lack of sufficient groundwater data. However, the apparent seep flow direction across BBDA 1 was observed to be in a westerly direction toward the Pacific Ocean following the general topographic trend.

4.2 Piezometer Purging and Sampling

During the First Quarter 2007, BBDA 1 piezometers (BB1PZ100 and BB1PZ101) were purged and sampled on 27 February, in accordance with Table 1A and procedures described in the FSP (Treadwell & Rollo, 2001a). During the Second Quarter 2007, BBDA 1 piezometers BB1PZ100 and BB1PZ101 were purged and sampled on 5 June, in accordance with Table 1B and procedures described in the FSP (Treadwell & Rollo, 2001a).

Seep location BB2ASW100 was dry during the First and Second Quarters 2007 and therefore, could not be sampled. The results from the First and Second Quarters 2007 are included in Tables A-17-1 through A-17-5.

Purging equipment, purging volumes, purge water parameters, and sampling equipment for each sampling location are described in the purge records at the conclusion of this section. Purge water was stored for future disposal in one of two 2,800-gallon aboveground polyethylene storage tanks, which are located at the Central Magazine.

4.3 Groundwater Analytical Program

All fresh water seep samples were submitted to the project laboratory for the analyses shown in Tables 1A and 1B of the main text. The appropriate sampling containers, preservatives, and maximum holding times for each analytical method are shown in Table 5. Sample containers used for each well are described in the purge records located at the conclusion of this section.

QA/QC samples were collected as part of this program. Section 6.2 of the main text discusses the QA/QC sampling and analysis performed for the Second Quarter 2007.

BBDAs 1 and 2A were added to the Presidio-Wide Groundwater Monitoring Program beginning in the Second Quarter 2007. The First and Second Quarters 2007 were the fifth and sixth expanded monitoring events conducted at BBDAs 1 and 2A, since the piezometers were installed in April 2005. The piezometers were sampled for analytes presented in Tables 1A and 1B during the First and Second Quarters 2007.

5.0 SURFACE WATER ANALYTICAL RESULTS

During the First Quarter 2007, BBDA 1 piezometers (BB1PZ100 and BB1PZ101) were purged and sampled on 27 February, seep location BB2ASW100 was dry during the First Quarter 2007 and therefore, could not be sampled. All samples were analyzed for dissolved oxygen, general chemistry parameters, OCPs, PAHs, TPHd, TPHfo, and both dissolved and total metals. All analyses were conducted in accordance with the groundwater sampling schedule (Table 1A).

During the Second Quarter 2007, BBDA 1 piezometers BB1PZ100 and BB1PZ101 were purged and sampled on 5 June, seep location BB2ASW100 was dry during the Second Quarter 2007 and therefore, could not be purged or sampled. All samples were analyzed for dissolved oxygen, general chemistry parameters, OCPs, PAHs, TPHd, TPHfo, and both dissolved and total metals. All analyses were conducted in accordance with the groundwater sampling schedule (Table 1B).

Analytical results for the First and Second Quarters 2007 can be found in tables A-17-1 through A-17-4. A discussion of the detected analyte concentrations is provided below.

5.1 Dissolved Oxygen and General Chemistry Results

Dissolved oxygen and general chemistry results are presented in Table A-17-1. During the First Quarter 2007, dissolved oxygen was measured at new low concentrations of 0.39 and 0.11 mg/L within BB1PZ100 and BB1PZ101, respectively. During the Second Quarter 2007, dissolved oxygen was measured at concentrations of 1.14 and 1.15 mg/L within BB1PZ100 and BB1PZ101, respectively.

In general, general chemistry parameter concentrations for the First and Second Quarter 2007 are consistent with historical results. The following general chemistry results were outside of historical bounds during the First and/or Second Quarters 2007.

- Chloride was detected at new high concentrations of 250 and 280 mg/L in BB1PZ100 during the First and Second Quarters 2007, respectively.
- Nitrate was detected for the first time during the First Quarter 2007 at a concentration of 0.09 mg/L within BB1PZ100. However, this is only slightly higher than the reporting limit for nitrate of < 0.05, and is not considered significant.
- Sulfate was detected at a new low concentration (80 mg/L) in BB1PZ100 during the First Quarter 2007.
- Fluoride was detected at a new high of 0.29 µg/L in BB1PZ101 during the Second Quarter 2007 which is just slightly greater than the previous maximum concentration.

The above general chemistry results are only slightly outside of historical bounds and do not appear to be significant.

5.2 TPH Results

The analytical results for TPHd and TPHfo, along with the RAP-specified cleanup levels, are presented in Table A-17-2.

During the First Quarter 2007, TPHd and TPHfo were not detected above the laboratory reporting limits in any monitoring locations. During the Second Quarter 2007, TPHd was detected concentrations of 57 and 140 µg/L in BB1PZ101 and BB1PZ100, respectively. TPHfo was not detected within BB1PZ101 and was detected within BB1PZ100 at a concentration of 760 µg/L during the Second Quarter 2007. The TPHfo concentration within BB1PZ100 exceeded the RAP cleanup level of 443 µg/L, but was consistent with historical concentrations. TPHg was not analyzed during the First and Second Quarters 2007.

TPH concentrations for the First and Second Quarter 2007 are consistent with historical results.

5.3 Total and Dissolved Metals Results

The total and dissolved metals and TDS results for First and Second Quarters 2007, along with RAP-specified cleanup levels, are presented in Table A-17-3. BBDA 1 seep water samples collected from the piezometer locations during the First and Second Quarters 2007 were analyzed for both total and dissolved metals.

The majority of dissolved metals concentrations measured during the First and Second Quarters 2007 were below RAP-specified cleanup levels. Dissolved lead was detected above its RAP-specified cleanup level (.25 µg/L) at a concentration of 3.2 µg/L within the sample collected from BB1PZ101 during the Second Quarter 2007. No other dissolved metals concentrations were found in excess of cleanup levels during the First or Second Quarters 2007. RAP-specified cleanup levels apply only to dissolved metals. The dissolved metals concentrations were within or were slightly higher or lower than historical ranges.

Several total metals concentrations were detected at concentrations significantly higher than historical concentrations during the First and Second Quarters 2007. The increase in total metals concentrations can likely be attributed to higher sediment levels in the collected water.

5.4 PAH and OCP Results

During the First and Second Quarters 2007, piezometers BB1PZ100 and BB1PZ101 were sampled for PAH and OCPs.

No PAHs were detected in any of the BBDAs 1 samples during the First Quarter 2007.

During the Second Quarter 2007, fluoranthene was detected at a concentration of 0.15 µg/L within the sample collected from BB1PZ100, which is significantly below its cleanup level of 300 µg/L. Chrysene and fluorene were detected at concentrations of 0.1 and 1 µg/L, respectively, within the sample collected from BB1PZ101. The chrysene detection exceeds the RAP effective cleanup level of 0.0044 µg/L, whereas, the fluorene detection was well below the 300 µg/L cleanup level. No other PAHs were detected during the Second Quarter 2007.

No OCPs were detected in any of the BBDAs 1 samples collected during the First and Second Quarters 2007.

6.0 CONCLUSIONS AND RECOMMENDATIONS

BBDAs 1 and 2A were added to the Presidio-Wide Groundwater Monitoring Program beginning First Quarter 2006. The First and Second Quarters 2007 were the fifth and sixth expanded monitoring events conducted at BBDAs 1 and 2A, since the piezometers were installed in April 2005.

During the Second Quarter 2007, TPHfo was detected within BB1PZ100 at a concentration of 760 µg/L which exceeded the RAP cleanup level of 443 µg/L. Dissolved lead was detected within the sample collected from BB1PZ101 at a concentration (3.2 µg/L) in excess of its RAP-specified cleanup of 2.5 µg/L. Chrysene was detected at a concentration of 0.1 µg/L within BB1PZ101 which exceeded the RAP cleanup level of 0.0044 µg/L.

No other analytes were detected above cleanup levels during the First and Second Quarters 2007.

The remedial excavation began following the Second Quarter 2007. No further sampling is scheduled for BBDAs 1 and 2A until the remedial excavation has been completed. If fresh water seeps are present following the remedial action, then monitoring will resume.

Table A-17-1
Results of Dissolved Oxygen and General Chemistry Analyses
Baker Beach Disturbed Areas 1 and 2A
Presidio of San Francisco, California

Location ID	Sample Date	Alkalinity, Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	Field	E300.0	E300.0	E300.0	E300.0	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
BB1PZ100	06/05/07	500	500	280	1.14	0.1	< 0.05	< 0.05	NA	88
	02/27/07	460	460	250	0.39	0.11	0.09	< 0.05	NA	80
	12/05/06	460	460	240	0.6	0.11	< 0.05	< 0.05	NA	82
	08/15/06	420	420	230	0.49	0.12	< 0.05	< 0.05	NA	91
	05/23/06	430	430	230	3.51	0.12	< 0.05	< 0.05	NA	110
	02/01/06	490	490	240	NA	0.13	< 0.05	NA	0.14	140
DUP020106	02/01/06	550	550	230	NA	0.091 J	< 0.05	NA	0.11	110
BB1PZ101	06/05/07	670	670	320	1.15	0.29	< 0.05	< 0.05	NA	150
	02/27/07	630	630	290	0.11	0.28	< 0.05	< 0.05	NA	160
	12/05/06	670	670	310	0.8	0.25	< 0.05	< 0.05	NA	150
	08/15/06	720	720	330	2	0.27	< 0.05	< 0.05	NA	180
	05/23/06	590	590	260	4.13	0.26	< 0.05	< 0.05	NA	150
	02/01/06	670	670	270	NA	0.25	< 0.05	NA	< 0.1	110
BB2ASW100	05/23/06	NM	NM	NM	NM	NM	NM	NM	NM	NM
	02/01/06	530	530	250	NA	0.31	0.94	NA	0.97	210

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2006.
mg/L - milligrams per liter
NA - not analyzed
NM - not measured
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-17-2
Results of TPH Analyses
Baker Beach Disturbed Areas 1 and 2A
Presidio of San Francisco, California

Location ID	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Target Effective Cleanup Level [2]		**443**	**443**	**443**
BB1PZ100	06/05/07	NA	140 HY	**760**
	02/27/07	NA	< 50	< 300
	12/05/06	NA	< 50	< 300
	08/15/06	NA	180 HY	**910**
	05/23/06	NA	130 HY	**630**
	02/01/06	< 33 UJ	380 HY	**1,600**
DUP020106	02/01/06	< 31 UJ	**830 HY**	**3,100**
BB1PZ101	06/05/07	NA	57 Y	< 300
	02/27/07	NA	< 50	< 300
	12/05/06	NA	< 50	< 300
	08/15/06	NA	62 HY	< 300
	05/23/06	NA	120 HY	420
	02/01/06	< 32 UJ	94 HY	140 J
	08/01/05	NA	NA	NA
	05/27/05	< 50 UJ	31 J	58 JY
BB2ASW100	05/23/06	NA	NA	NA
	02/01/06	< 27 UJ	47 JY	< 300

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2006.
2 - Target effective cleanup levels were taken from Table 6-10 of the *Final Remedial Action Plan, Baker Beach Disturbed Areas 1 and 2A, and Twenty-Six Other Sites, Presidio of San Francisco, California* (MACTEC, 2007a).
Bold numbers indicate concentrations in excess of cleanup criteria.
µg/L - micrograms per liter
TPH - total petroleum hydrocarbons
NA - not analyzed
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were
Table 11 in the main report identifies current and historical data qualifiers.

Table A-17-3
Results of Total and Dissolved Metals Analyses
Baker Beach Disturbed Areas 1 and 2A
Presidio of San Francisco, California

Location ID	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW7470	SW6010	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Target Effective Cleanup Level (Dissolved) [2]		**--**	**6**	**10**	**1,000**	**4**	**1.1**	**--**	**50**	**--**	**9**	**--**	**2.5**	**--**	**--**	**0.012**	**--**	**52**	**--**	**5**	**3.4**	**--**	**1.7**	**--**	**120**	**--**
BB1PZ100	06/05/07	< 100	< 1	< 5	130	< 2	< 1	45,000	< 10	< 10	< 1	< 100	< 3	64,000	140	< 0.2	NA	< 20	12,000	< 5	< 1	190,000	< 1	< 10	< 20	NA
	02/27/07	< 100	< 1	< 5	110	< 2	< 1	47,000	< 10	< 10	< 1	230	< 3	68,000	130	< 0.2	NA	< 20	12,000	< 5	< 1	190,000	< 1	< 10	< 20	NA
	12/05/06	< 100	< 1	< 5	110	< 2	< 1	44,000	< 10	< 10	< 1	240	< 3	63,000	130	< 0.2	NA	< 20	12,000 J	< 5	< 1	190,000	< 1	< 10	< 20	NA
	08/15/06	< 100	< 1	< 5	99	< 2	< 1	47,000	< 10	< 10	2.3	260	< 3	64,000	140	< 0.2 UJ	NA	< 20	11,000	< 5	< 1	220,000	< 1	< 10	< 20	NA
	05/23/06	< 100	< 1	< 5	110	< 2	< 1	41,000	< 10	< 10	< 1	220	< 3	61,000	140	< 0.2	NA	< 20	10,000	< 5	< 1	240,000	< 1	< 10	< 20	NA
	02/01/06	51	4.9	3.4	99 J+	< 1	< 1	NA	2 J	0.32 J	1.4 J-	250	2.2	55,000	110	**8.5**	32	11	NA	0.63 J	< 1	190,000	< 1	3.6	19	NA
DUP020106	02/01/06	34 J	**9.7**	9.3	85 J+	< 1	< 1	74,000 J	1.3 J	2.6	2.1 J-	300	1.5	110,000	1,000	**8.9**	8.7	13	NA	1.1	< 1	180,000	< 1	8.6	23	NA
BB1PZ101	06/05/07	470	3.2	6.3	100	< 2	< 1	84,000	< 10	< 10	< 1	640	**3.2**	110,000	3,400	< 0.2	NA	< 20	4,600	< 5	< 1	170,000	< 1	< 10	< 20	NA
	02/27/07	< 100	< 1	< 5	99	< 2	< 1	96,000	< 10	< 10	< 1	460	< 3	130,000	5,600	< 0.2	NA	< 20	4,600	< 5	< 1	190,000	< 1	< 10	< 20	NA
	12/05/06	< 100	< 1	5.3	110	< 2	< 1	96,000	< 10	< 10	< 1	330	< 3	120,000	3,600	< 0.2	NA	< 20	5,000 J	< 5	< 1	190,000	< 1	< 10	< 20	NA
	08/15/06	< 100	3	6.3	100	< 2	< 1	110,000	< 10	< 10	1.2	340	< 3	150,000	3,600	< 0.2 UJ	NA	< 20	5,500	< 5	< 1	220,000	< 1	< 10	< 20	NA
	05/23/06	< 100	1.7	< 5	83	< 2	< 1	83,000	< 10	< 10	6.7	< 100	< 3	130,000	1,700	< 0.2	NA	< 20	4,300	< 5	< 1	200,000	< 1	< 10	< 20	NA
	02/01/06	22 J	1.9	3.4	110 J+	< 1	< 1	36,000 J	1	< 0.17 UJ	0.56 J-	140	< 0.62	61,000	110	<0.2	33	11	NA	1.3	< 1	200,000	< 1	3.8	14 b	NA
	08/01/05	NA	3.1	7.1	74	< 1	< 1	NA	0.69 J	1.9	1.2	NA	0.25	NA	NA	<0.2	5.9	9.4	NA	0.8 J	< 1	NA	< 1	2.7	17 J	NA
	05/27/05	NA	2.6 J	6.8	63 J+	< 2	< 5	NA	0.69	2.1 J	1.6 J-	NA	0.26 J	NA	NA	<0.2	6.7 J	10 J	NA	0.6 J	< 5	NA	< 5	3 J	18 J	NA
BB2ASW100	05/23/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/01/06	36 J	**7.3**	7.5	88	< 1	< 1	NA	5 J	0.6 J	**13 J-**	200	< 1.2	120,000	7	**1.3**	12	17	NA	2.1	< 1	180,000	< 1	5.2	24	NA
Total Metals [3]																										
BB1PZ100	6/5/2007	19,000	3	11	960	< 2	4.5	74,000	1100	61	390	110,000	2,700	250,000	2,200	3.6	NA	1,000	14,000	< 5	1.9	180,000	< 1	98	2,600	NA
	02/27/07	300 J+	< 1	< 5	120	< 2	< 1	49,000	11	< 10	13	1,500	32	72,000	170	< 0.2	NA	23	12,000	< 5	< 1	200,000	< 1	< 10	47	NA
	12/05/06	1,400	< 1	< 5	150	< 2	< 1	45,000	54	< 10	19	9,200	320	67,000	320	0.35	NA	100	11,000 J	< 5	< 1	180,000	< 1	11	360	NA
	08/15/06	3,800	< 1	5.2	200	< 2	1.8	73,000	130	15	7.7	47,000	850	87,000	1,200	0.89 J-	NA	210	12,000	< 5	< 1	230,000	< 1	38	1,800	NA
	05/23/06	2,500	< 1	< 5	170	< 2	1.2	52,000	100	< 10	19	25,000	790	73,000	720	1.1	NA	130	10,000	< 5	< 1	230,000	< 1	26	1,100	NA
	02/01/06	NA	1.1	8.9	250 J+	0.4 J	3.1	39,000 J	180 J	16	74 J-	NA	1,800	NA	NA	7.5	3.3	230	NA	1.7	0.21 J	NA	< 1	55	2,200	990
DUP020106	02/01/06	NA	1.9	9.4	330 J+	0.38 J	3.3	NA	320 J	26	190 J-	NA	2,000	NA	NA	11	6.9	360	NA	2.4	0.96 J	NA	< 1	62	2,000	1,000
BB1PZ101	06/05/07	32,000	< 1	42	650	2.7	1.1	120,000	210	130	880	82,000	300	170,000	6,400	1.7	NA	400	6,300	< 5	< 1	160,000	< 1	180	650	NA
	02/27/07	16,000 J+	2.6	17	270	< 2	< 1	99,000	96	19	140	33,000	57	150,000	5,500	< 0.2	NA	130	6,500	< 5	< 1	190,000	< 1	66	0	NA
	12/05/06	2,300	< 1	7.4	130	< 2	< 1	97,000	10	< 10	28	4,900	27	120,000	2,000	< 0.2	NA	31	5,400 J	< 5	< 1	190,000	< 1	12	100	NA
	08/15/06	3,400	1.6	13	140	< 2	< 1	110,000	14	21	170	9000	57	150,000	3,900	0.23 J-	NA	62	5,700	< 5	< 1	210,000	< 1	30	100	NA
	05/23/06	5,000	1.7	14	130	< 2	< 1	91,000	24	26	230	14,000	83	130,000	2,200	0.54	NA	86	4,600	< 5	< 1	200,000	< 1	41	160	NA
	02/01/06	NA	3.8	18	160 J+	0.63 J	0.42 J	NA	37 J	20	64 J-	NA	56	NA	NA	0.3	4	62	NA	1.7	0.054 J	NA	0.09 Jb	49	140	1,340
	08/01/05	NA	1.3	13	120	0.33 J	0.17 J	NA	17 J	14	60	NA	45	NA	NA	<0.2	2.2	42	NA	1.9	< 1	NA	0.94 J	25	75 J	NA
BB2ASW100	02/01/06	NA	3	19	290 J+	2	2.6	53,000	77 J	190	320 J-	NA	610	NA	NA	5.5	1.5	810	NA	5.5	0.097 J	NA	0.95 Jb	65	820	1,200

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2006.
2 - Target effective cleanup levels were taken from Table 6-10 of the *Final Remedial Action Plan, Baker Beach Disturbed Areas 1 and 2A, and Twenty-Six Other Sites, Presidio of San Francisco, California* (MACTEC, 2007a).
3 - Cleanup levels do not apply to total metals results.

All metals results represent dissolved metals, unless indicated as "total" in the left-hand column for total metal results. The target effective cleanup levels are presented for dissolved and total metals concentrations, as applicable.

Bold numbers indicate concentrations of metals which exceed cleanup criteria.
mg/L - milligrams per liter
µg/L - micrograms per liter
NA - not analyzed
-- - not available or applicable
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-17-4
Results of PAH and VOC Analyses
Baker Beach Disturbed Areas 1 and 2A
Presidio of San Francisco, California

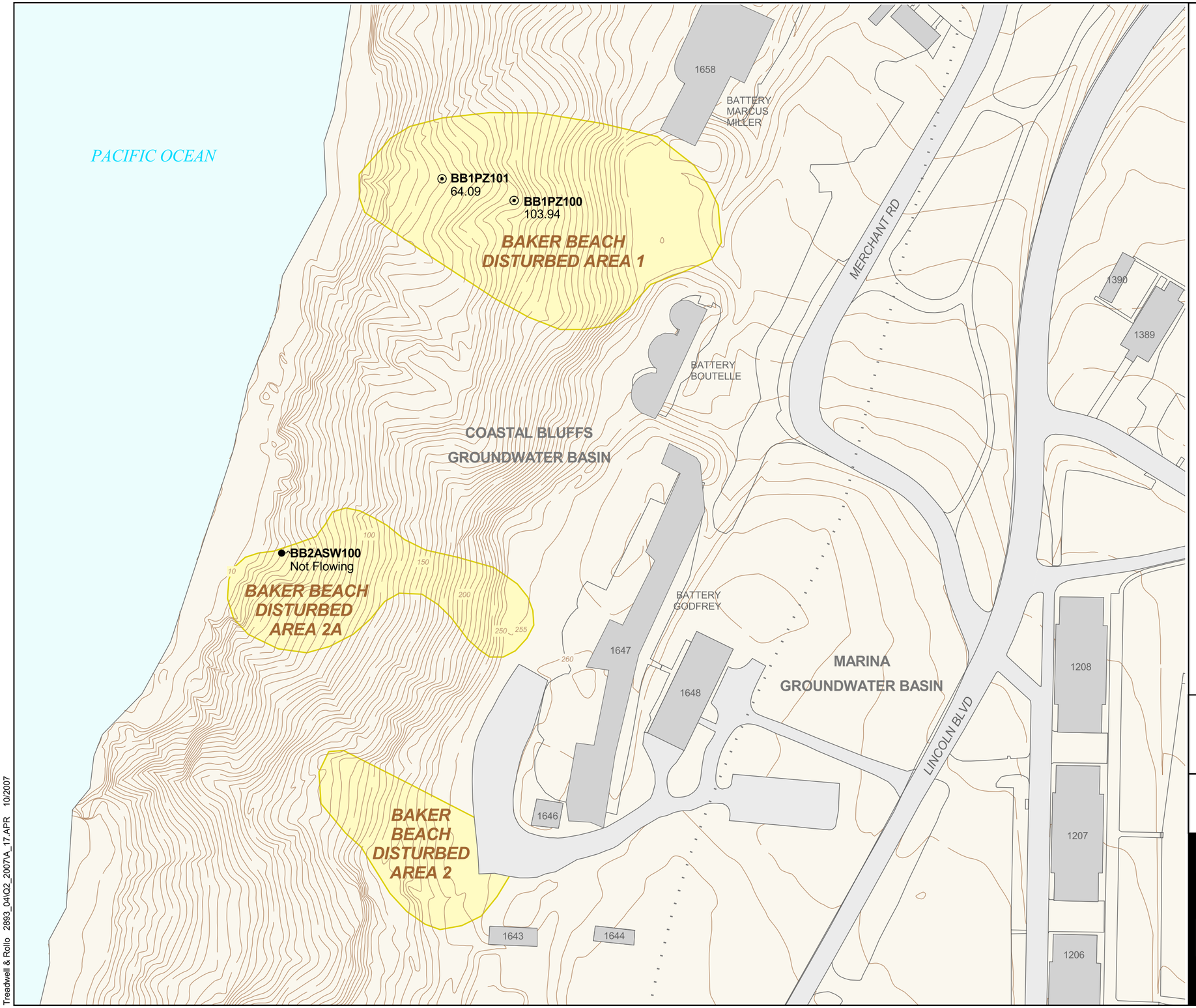
Location ID	Sample Date	PAHs											OCPs		VOCs				
		Acenaphthene	Anthracene	Benzo(a)-anthracene	Benzo(b)-fluoranthene	Chrysene	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	All Other PAH	4,4'-DDT	All other OCPs	Acetone	Benzene	Carbon disulfide	Methylene chloride	All Other VOCs
	Analytical Method[1]	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM	8081	8081	8260B	8260B	8260B	8260B	8260B
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	
Target Effective Cleanup Levels [2]		**1,200**	**770**	**0.0044**	**0.0044**	**0.0044**	**300**	**300**	**300**	**230**	**230**	**--**	**0.00059**	**--**	**--**	**1**	**--**	**4.7**	**--**
BB1PZ100	06/05/07	< 1.1	< 0.53	< 0.11	< 0.21	< 0.11	0.15 J	< 1.1	< 1.1	< 0.53	< 0.21	ND	< 0.1 UJ	ND	NA	NA	NA	NA	NA
	02/27/07	< 0.97	< 0.49	< 0.1	< 0.19	< 0.1	< 0.39	< 0.97	< 0.97	< 0.49	< 0.19	ND	< 0.1	ND	NA	NA	NA	NA	NA
	12/05/06	< 0.96	< 0.48	< 0.1	< 0.19	< 0.1	0.04 J	< 0.96	< 0.96	< 0.48	< 0.19	ND	< 0.1 UJ	ND	NA	NA	NA	NA	NA
	08/15/06	< 0.94	< 0.47	< 0.09	< 0.19	< 0.09	0.07 J	< 0.94	NA	< 0.47	< 0.19	ND	< 0.1 UJ	ND	NA	NA	NA	NA	NA
	05/23/06	< 2	< 0.49	< 0.1	< 0.2	< 0.1	< 0.39	< 0.98	< 0.98	< 0.49	< 0.2	ND	< 0.1	ND	NA	NA	NA	NA	NA
	02/01/06	<0.1	< 0.1	< 0.1	< 0.1	**0.02 J**	<0.1	< 0.1	0.06 J	0.02 J	0.02 J	ND	< 0.1	NA	1.5 J	0.2 J	0.1 J	0.3 J	ND
DUP020106	02/01/06	<0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1	< 0.1	0.02 J	0.01 J	< 0.02 UJ	ND	< 0.1	NA	0.9 J	0.1 J	0.1 J	0.2 J	ND
BB1PZ101	06/05/07	< 0.95	< 0.48	< 0.1	< 0.19	**0.1**	< 0.38	1	< 0.95	< 0.48	< 0.19	ND	< 0.1 UJ	ND	NA	NA	NA	NA	NA
	02/27/07	< 0.96	< 0.48	< 0.1	< 0.19	< 0.1	< 0.38	< 0.96	< 0.96	< 0.48	< 0.19	ND	< 0.1	ND	NA	NA	NA	NA	NA
	12/05/06	< 0.95	< 0.48	< 0.1	< 0.19	< 0.1	< 0.38	< 0.95	< 0.95	< 0.48	< 0.19	ND	< 0.09 UJ	ND	NA	NA	NA	NA	NA
	08/15/06	< 0.94	< 0.47	< 0.09	< 0.19	< 0.09	< 0.38	< 0.94	NA	< 0.47	< 0.19	ND	< 0.1 UJ	ND	NA	NA	NA	NA	NA
	05/23/06	< 2	< 0.5	< 0.1	< 0.2	< 0.1	< 0.4	< 0.99	< 0.99	< 0.5	< 0.2	ND	< 0.5	ND	NA	NA	NA	NA	NA
	02/01/06	<0.1	< 0.1	< 0.1	< 0.1	<0.1	<0.1	0.06 J	<0.1 UJ	0.01 J	< 0.01 UJ	ND	< 0.1	NA	1 J	< 0.5	<0.5	< 0.2	ND
	05/27/05	<0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	0.2	<0.09	< 0.09	<0.09	ND	< 0.09	NA	0.9 J	<0.5	<0.5	<10	ND
BB2ASW100	02/01/06	0.03 J	0.05 J	**0.01 J**	**0.02 J**	**0.03 J**	0.05 J	0.1	< 0.05 UJ	0.09 J	0.05 J	ND	**0.03 CJ**	NA	2.6 J	< 0.5	0.1 J	< 0.6	ND

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2006.
2 - Target effective cleanup levels were taken from *Final Remedial Action Plan, Baker Beach Disturbed Areas 1 and 2A, and Twenty-Six Other Sites, Presidio of San Francisco, California* (MACTEC, 2007a).
Bold numbers indicate concentrations in excess of cleanup criteria.
µg/L - micrograms per liter
NA - not analyzed
-- - not available or applicable
ND - All analytes below reported individual analytical detection limits
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-17-5
Fresh Water Seep Elevation Summary
Baker Beach Disturbed Areas 1 and 2A
Presidio of San Francisco, California

Location ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Water Elevation (feet PLLW)	Well Type
BB1PZ100	06/04/07	3.61	107.48	103.87	PZ
	02/26/07	3.54	107.48	103.94	PZ
	12/04/06	3.82	107.48	103.66	PZ
	08/14/06	3.80	107.48	103.68	PZ
	05/22/06	3.28	107.48	104.20	PZ
	02/01/06	3.48	107.48	104.00	PZ
BB1PZ101	06/04/07	3.78	68.36	64.58	PZ
	02/26/07	4.27	68.36	64.09	PZ
	12/04/06	5.12	68.36	63.24	PZ
	08/14/06	4.75	68.36	63.61	PZ
	05/22/06	4.52	68.36	63.84	PZ
	02/01/06	4.63	68.36	63.73	PZ
BB2ASW100	06/04/07	Not Flowing	28.69	NM	SW
	02/26/07	Not Flowing	28.69	NM	SW
	12/04/06	Not Flowing	28.69	NM	SW
	08/14/06	Not Flowing	28.69	NM	SW
	05/22/06	Not Flowing	28.69	NM	SW
	02/01/06	Flowing	28.69	28.69	SW

Notes
1 - All depth to water measurements are an average of three measurements recorded in the field.
SW - Seep
PZ - Piezometer
NM - not measured
feet PLLW - feet above Presidio lower low water vertical datum



N

120 0 120 Feet

LEGEND

- **BB1PZ100** 103.94 — Piezometer, February 2007 Fresh Water Seep Elevation
- **BB2ASW100** Not Flowing — Approximate Fresh Water Sample Location
- Groundwater Basin Boundary
- Topographic Contour (Contour Interval : 5 ft)
- Presidio Base map
- Approximate Lateral Extent of Landfill
- 1648 — Building

Notes:
Fresh water seep elevation data collected 26 February 2007.

Base map provided by the Presidio Trust in June 2003.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

BAKER BEACH DISTURBED AREAS 1 AND 2A SITE PLAN AND 26 FEBRUARY 2007 FRESH WATER SEEP ELEVATION MAP

Treadwell&Rollo

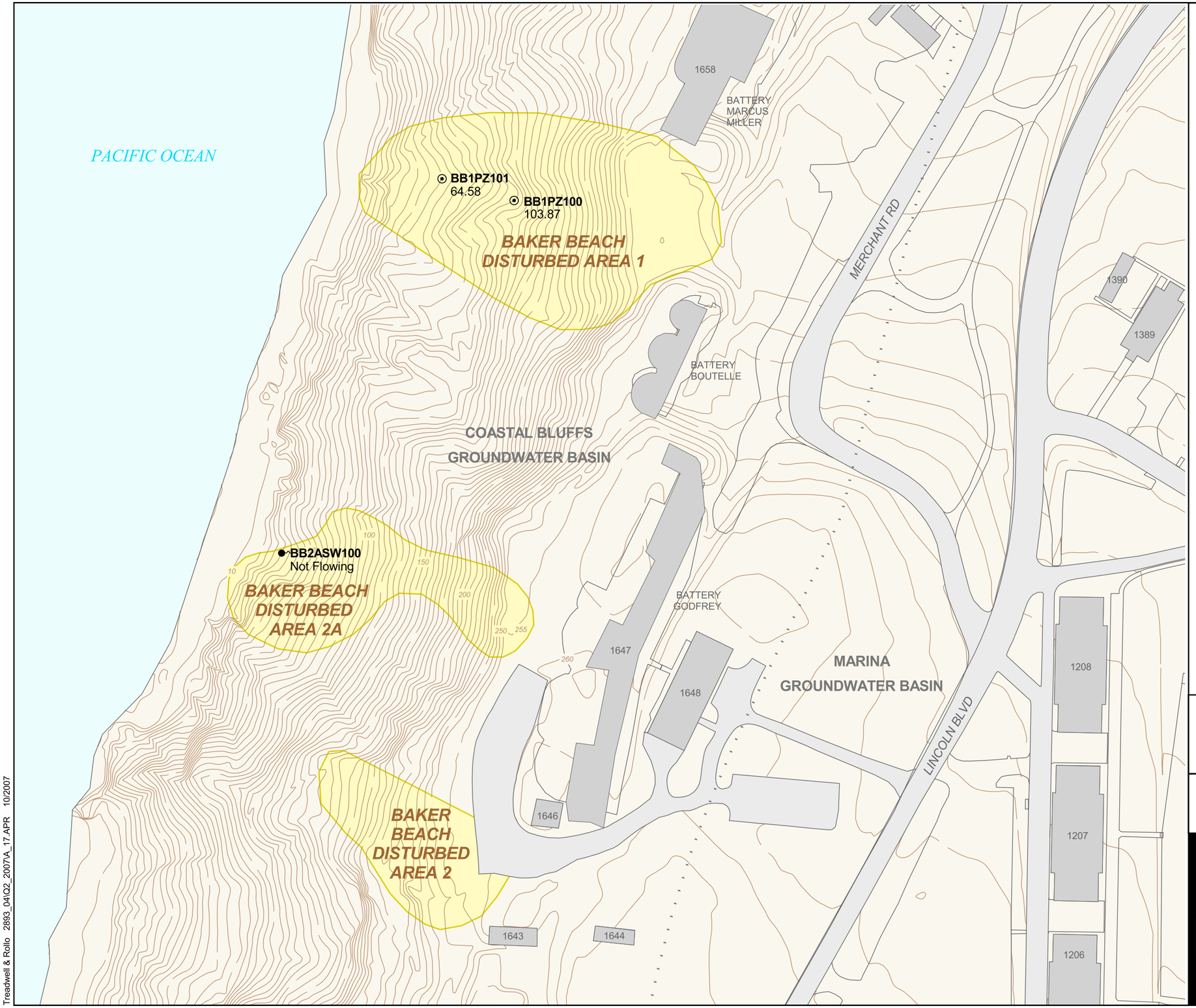
THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315

October 2007

FIGURE A-17-1

Treadwell & Rollo 2893_04\Q2_2007\A_17.APR 10/2007



N

120 0 120 Feet

LEGEND

- **BB1PZ100** 103.87 — Piezometer, June 2007 Fresh Water Seep Elevation
- **BB2ASW100** Not Flowing — Approximate Fresh Water Sample Location
- Groundwater Basin Boundary
- Topographic Contour (Contour Interval : 5 ft)
- Presidio Base map
- Approximate Lateral Extent of Landfill
- 1648 — Building

Notes:
Fresh water seep elevation data collected 4 June 2007.

Base map provided by the Presidio Trust in June 2003.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

BAKER BEACH DISTURBED AREAS 1 AND 2A SITE PLAN AND 4 JUNE 2007 FRESH WATER SEEP ELEVATION MAP

Treadwell&Rollo

THE PRESIDIO TRUST

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October 2007

FIGURE A-17-2

Treadwell & Rollo 2893_04\Q2_2007\A_17.APR 10/2007

First Quarter 2007

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BBI | Well No.: BBIPZ101

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: D. Cornish, B. Summerset | Date: 2/27/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC): 12.39

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp.

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Poor | Purge Rate: 0.5

4.5 gals ACTUAL PURGE VOLUME

DO YSI 550A

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron L Ultrameter/Hach Turbidimeter

Time / Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/			pre 0.26		–		
1000 / initial	7.21	11.0	–	2032 µS	–	36	clear
1003 / 1.5	7.18	11.6	–	2024	–	127	"
1006 / 3	7.18	11.8	–	2029	–	135	"
1009 / 4.5	7.17	12.0	–	2055	–	132	"
/			post 0.11				
/							
/				Post Purge DTW: 9.81			
/							
/							
/							
/							
/							
/							
/							

Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other onsite Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 2/27/07 / 1015

Purging Equipment: Pump - Type: | Bailer - Type: Disp | Other:

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BBIPZ101	1x1L Poly NP	CAT	2180	
	2x500ml Poly HNO3			
	6x1L Amber NP			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area BBI | Well No. BBIPZ100

Project Number 2893 | Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By D.Cornish | Sampled by D.Cornish, B.Summerset | Date 2/27/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 18.05

Depth to Water (WL, ft. below TOC):

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type Disp.

[ ] Normal [ ] Pump \ Type

[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate Poor | Purge Rate 0.5 gpm

4.5 gals ACTUAL PURGE VOLUME

DO VSI 550A

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type Myron L Ultrameter / Hach Turbidimeter

Time	/	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
0930	/	1.5			pre .39		—		
0933	/	3 1.5	7.69	11.7	—	1664 µS	—	25	clear
0936	/	4 5 3	7.85	12.1	—	1655	—	31	↓
	/	45	8.00	12.1	—	1659	—	31	↓
	/				post		—		
	/								
	/					Post Purge	11.10' - DTW		
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other onsite Tanks

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled 2/27/07 / 0942

Purging Equipment: Pump - Type | Bailer - Type Disp | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BBIPZ100	1x1L Poly NP	CET	2180	
	2x500ml Poly HNO3	↓		
	6x1L Amber NP			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell & Rollo
Environmental and Geotechnical Consultants

Second Quarter 2007

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BRC | Well No.: BB1PZ101

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: D. Cornish | Sampled by: D. Cornish, S. Rose | Date: 6/5/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 12.38

Depth to Water (WL, ft. below TOC): 7.83

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: 0.5 gpm

4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron L / Hach Turb. / YSI DO

Time / Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/			pre 0.10		–		
1016 / initial	7.8	14.2	–	2005 µS	–	23	
1019 / 1.5	7.4	13.8	–	2062	–	790	
1022 / 3	7.3	13.7	–	2104	–	>1000	
1025 / 4.5	7.4	13.6	–	2112	–	>1000	
/			post 1.15				
/		Post					
/		DTW:	10.10				

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other onsite Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6/5/07 / 1034

Purging Equipment: Pump - Type: Bailer - Type: Disp Other:

Sample Filtered: (Yes) / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BB1PZ101	5x1L Amber NP	C&T	2156	
	2x500ml Poly HNO3			
	1x500ml Poly NP			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BBI | Well No.: BBI PZ100

Project Number: ~~BBS~~ 2493 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: P. Cornish / S. Rose | Date: 6/5/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 18.03

Depth to Water (WL, ft. below TOC): 3.58

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = CALCULATED PURGE VOLUME: gals

Total Purge Time

Recharge Rate | Purge Rate: 0.5 gpm

ACTUAL PURGE VOLUME: 4.5 gals

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron L / Hach Turb. / YSI DO

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/			pre 0.09				
0914 / initial	7.8	14.5	–	1675 µS	–	8	✓
0917 / 1.5	8.0	13.7	–	1666	–	14	
0920 / 3	8.1	13.6	–	1702	–	65	
0923 / 4.5	8.1	13.4	–	1692	–	650	
/			post 1.14				
/							
/							
/			Post				
/			DTW: 15.25				
/							
/							
/							
/							
/							

Comments | Purge water storage/disposal: [ ] Drummed onsite [X] Other Onsite Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 6/5/07 / 0920

Purging Equipment: Pump - Type | Bailer - Type: Disp | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BBIPZ100	5x1L Amber UNP	CET	2156	
	1x500ml Poly NP			
	2x500ml Poly HNO3			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell & Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Baker Beach Disturbed Area 1&2A Well No.: BB2ASW100

Project Number: 7893 Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish Sampled by: Date: 6/14/07

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC):

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Surface water point

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/	* ~~Insufficient Water~~	and Recharge, well Dry			good but	~~Not Sampled~~	Not Sampled @ this event. BM
/	* Seep	Not Running, No sample taken			for this	event.	
/							
/							
/							
/							
/							
/							
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/							
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/							
/							
/							
/							

Comments Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: /

Purging Equipment: Pump - Type Bailer - Type Other

Sample Filtered: Yes / No Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

APPENDIX B
Calibration Forms

First Quarter 2007

RECEIVED
MAR 14 2007
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Field Instrument Calibration Log

Major Work Order No.: 2893

Project Name: Presidio S.F.

Instrument Type	Instrument SN	Calibration Type (standard → Reading)	Date	Temp C°	By
Hach Turbidimeter	02110002 8998	55 NTU → 52 NTU	3/7/07	–	P. Cornish
		5.0 → 5.3		–	
		483 → 483		–	
Myron L Ultrameter	609004	4.0 pH → 3.92 pH		12.4	
		7.0 → 7.02		12.5	
		10.0 → 10.01		12.4	
		3900 µs → 3889 µs		12.0	
YSI DOmeter	04B0822AE	to 100% →			
YSI 55	02H0278AS 02289	to 100% → 105.5	3/8/07	8.2	P. Cornish
YSI 550A	04B0822 AE	104.9		7.9	
YSI 550A	0591886 AA	104.3		12.1	
Myron L Ultrameter	609004	4.0 pH → 3.81 pH		10.6	
		7.0 → 7.17		10.6	
		10.0 → 9.79		10.8	
		3900 µs → 3875 µs		11.8	
Hach Turbidimeter	02110002 8998	5 NTU → 5.79		–	
		55 → 50.8		–	
		470 → 479		–	
3/8/07 DO meter Calibration on last day					
YSI 55	02H0278AS	reading in → 0.49 mg/L		13.1	P. Cornish
YSI 550A	04B0822AE	LF4GW107 → 0.34		14.2	
YSI 550A	0591886 AA	→ 0.41		14.0	

Field Instrument Calibration Log

Major Work Order No.: 2893

Project Name: Presidio S.F.

Instrument Type	Instrument SN	Calibration Type (Standard → Reading)	Date	Temp C°	By
YSI 550A	05G1886	→ 100% → 99.9%	2/27/07	11.1	P. Cornish
Myron L Ultrameter	609004	4.0 pH → 4.00		10.4	
		7.0 → 7.01		10.3	
		10.0 → 9.94		10.6	
		3900 µs 3899 µs		10.8	
Hach Turbidimeter	02060002678	550 NTU → 550		-	
		45 → 47		-	
		5.2 → 6.0		-	
Hach Turbidimeter	02110002899	800 NTU → 780 NTU	2/28/07		P. Cornish
		100 → 96			
		20 → 22			
Myron L Ultrameter	609004	4.0 pH 3.97 pH		10.2	P. Cornish
		7.0 → 7.02		10.8	
		10.0 10.01		11.1	
		3900 µs → 3905 µs		12.0	
		ORP 257 mV @ 5°C → 249		5.9	
YSI 550A DO meter	05G1886	to 100% → 102.2%		9.5	
YSI 550A DO meter	05G1886	to 100% → 95.9%	3/1/07	10.1	
~~Myron L Ultrameter~~		4.0 pH 4.01 pH		12.07	
YSI 556	05C1520	7.0 → 6.76		11.34	
Flow Cell		10.0 → 9.93		11.36	
		3900 µs → 3885 µs		11.65	
		ORP 244 mV @ 15C° → 251.2		12.49	
Hach Turbidimeter		800 NTU → 789 NTU		-	
		100 → 95		-	
~~DSI~~		20 → 22		-	
YSI 556	05G1886	DO → 100% → 105.3%		11.66	

Field Instrument Calibration Log

Major Work Order No.: 2893

Project Name: S.F. Presidio

Instrument Type	Instrument SN	Calibration Type	Date	Temp.C°	By
YSI 550A DO Meter	05G1886	to 100% → 103.1%	3/2/07	10.7	P. Cornish
Myron L Ultrameter	6090004	4.0 pH → 4.01 pH		10.1	
		7.0 → 6.89		10.4	
		10.0 → 9.98		10.4	
		3900 µs → 3902 µs		11.0	
Hach 2100	02110002 8998	800 NTU → 773 NTU		–	
Turbidimeter	~~05G1886~~ AA	100 → 94		–	
		20 → 21		–	
		standard reading			
Hach Turbidimeter	0607 0C 018253	55 NTU → 57	3/6/07	Temp C°	PC
2100		6 → 7			
		470 → 520			
Hach Turbidimeter	024000 28998	55 NTU → 53			
2100		6 → 6			
		470 → 491			
Myron L Ultrameter	6206855	4.0 pH → 4.01 pH		11.7	
6P		7.0 → 7.05		11.6	
		10.0 → 9.79		11.7	
		3900 µs → 3899		11.8	
		~~ORP mV @ C°~~ →			
Myron L Ultrameter	6090004	4.0 pH → 4.00 pH		11.7	
6P		7.0 → 7.01		11.6	
		10.0 → 10.01		11.8	
		3900 µs → 3900 µs		11.9	
YSI 550A DO meter	05G1886 AA	~~to~~ 100% → 91.6%		10.0	
" " "	04B0832 AB	~~to~~ 100% → %			

Field Instrument Calibration Log

Major Work Order No.: 2693

Project Name: Presidio of S.F.

Instrument Type	Instrument SN	Calibration Type	Date	By
Durham Geo - Slope Indicator	26432	All 4 sounders measured 937GW105 5.40	2/26/07	D. Allbaugh
	25340	5.43		D. Raynal
	26424	5.40		P. Cornish
	~~5th~~ 25339	5.39		B. Summersett

Field Instrument Calibration Log

Major Work Order No.: 2893

Project Name: Treadwell + Rollo @ Presidio

Instrument Type	Instrument SN	Calibration Type	Date	By
YSI 550A	04B0822 AF	100%	3/5/07	DR
		100%	3/6/07	DR
		100%	3/7/07	DR
		100%	3/8/07	DR
Myron L Ultrameter	6206855	Standards Cond.		
		7.0 10.0 4.0 3900		
		7.0 10.0 4.0 3900	3/5/07	DR
		7.0 10.0 4.0 3900	3/6/07	DR
		7.0 10.0 4.0 3900	3/7/07	DR
		7.0 10.0 4.0 3900	3/8/07	DR
Hach Turbidimeter	06070C018253	Standards		
		560 55 5.7	3/5/07	DR
		552 54 5		
		553 52 5	3/6/07	DR
		556 50 5	3/7/07	DR
		551 53 5	3/8/07	DR
ORP Meter	7555	Reading Not used	3/5/07	DR
		Not Used	3/6/07	DR
		256	3/7/07	DR
		Not Used	3/8/07	DR

Field Instrument Calibration Log

Major Work Order No.: 2893

Project Name: Treadwell + Rollo @ Presidio

Instrument Type	Instrument SN	Calibration Type	Date	By
YSI 550A	04B0822 AE	100%	2/27/07	DR
		"	2/28/07	
		"	3/1/07	
		"	3/2/07	
Myron L Ultrameter II	6206855	7.0 Standards 10.0 4.0 Cond 3900	2/27/07	DR
		7.0 Readings 10.0 4.0 Cond 3900		
		7.0 10.0 4.0 3900	2/28/07	DR
		7.0 10.0 4.0 3900		
		7.0 10.0 4.0 3900	3/1/07	DR
		7.0 10.0 4.0 3900		
		7.0 10.0 4.0 3900	3/2/07	
		7.0 10.0 4.0 3900		
Hach Turbidimeter	060700C0 18253	560 Standards 55 5.7	2/27/07	DR
		551 Readings 53 5		
		560 55 5.7	2/28/07	DR
		553 52 5		
ORP Meter	[redacted] 7555	Reading 227	2/27/07	DR
		218	2/28/07	DR
		221	3/1/07	DR
		216	3/2/07	DR
Hach Turbidimeter	Same as above	560 55 5.7	3/1/07	DR
		550 54 5		
		560 55 5.7	3/2/07	DR
		553 51 5		

Field Instrument Calibration Log

Major Work Order No.: 2893

Project Name: Presidio S.F.

Instrument Type	Instrument SN	Calibration Type	Date	By
myron L	610990	ph 4.0/7.0/10.0/3900	2-27-07	BR
Hach 2100P	23623	800/100/20/<0.1	2-27.07	BR
myron L	610990	ph 4.0/7.0/10.0/3900	2-28-07	BR
Hach 2100P	23623	800/100/20/<0.1	2-28-07	BR
YSI D.O	05L1042	100%	2-28-07	BR
myOrion ORP	3533	standard 252 read 269	2-28-07	BR
myron L	610990	4.0/7.0/10.0/3900	3-1-07	BR
Hach 2100P	23623	800/100/20/<0.1	3-1-07	BR
YSI D.O	05L1042	100%	3-1-07	BR
Orion ORP	3533	Standard 250.5 read 261	3-1-07	BR
myron L	610990	4.0/7.0/10.0/3900	3-2-07	BR
Hach 2100P	23622	800/100/20/<0.1	3-2-07	BR
YSI D.O	05L1042	100%	3-2-07	BR

Field Instrument Calibration Log

Major Work Order No.: 2983

Project Name: Presidio

Instrument Type	Instrument SN	Calibration Type	Date	By
Myron Ultrameter	612495	Liquid	3/5/07	BP
Hach Turbidity	05110C014694	Standards	3/5/07	BP
YSI DO	02H0278 AS	100%	3/5/07	BP
Hach Turbidity	05110C014697	Standards	3/6/07	BP
YSI 556	05C1520 AH	Liquid	3/6/07	BP
YSI 556	05C1520 AH	Liquid	3/7/07	BP
Hach 2100	05110C014647	Standards	3/7/07	BP
Myron Ultra	612495	Liquid	3/7/07	BP
YSI DO	02H0278 AS	100%	3/7/07	BP

Second Quarter 2007

Field Instrument Calibration Log

Major Work Order No.: 2893

Project Name: Presidio

Done @ 1400

Instrument Type	Instrument SN	Calibration Type	Date	By	Reading (ft.)
Durham Geo	28351	All meters checked	6/4/07	P. Lornish	4.08
slope Indicator	27938	@ 23/GW28		D. Ragnal	4.1
	28271			B. Prowd	4.10
	27939			S. Rose	4.09

Field Instrument Calibration Log

Major Work Order No.: 2893

Project Name: Presidio, SF.

Instrument Type	Instrument SN	Calibration Type	Date	By
YSI 556 Flowcell	07C2008	DO 100% → 100.1%	6/7/07	P-Cornish
		4.0 pH → 4.09		
		7.0 → 7.06		
		10.0 → 10.18		
		3900 µS → 3891		
		ORP 244 mV @ 15 C° → 247	mV @ 13 C°	
Hach Turbidimeter	060600C017 103	1000 NTU → 103		
		800 → 807		
		<1 → 0.2		

Field Instrument Calibration Log

Major Work Order No.: 2893

Project Name: Presidio, SF

Instrument Type	Instrument SN	Calibration Type	Date	By
Myron L Ultrameter II	6206855	4.0 pH → 4.0	6/5/07	P. Cornish, S. Rose
		7.0 pH → 7.0	↓	↓
		10.0 pH → 10.0	↓	↓
		3900 µS → 3900 µS	↓	↓
Myron L Ultrameter II	6210588	4.0 pH → 3.97		
		7.0 pH → 7.0		
		10.0 pH → 9.83		
		3900 µS → 3895		
DO Meter YSI		→ 100% 92.7%		
Hach Turbidimeter		0 NTU → .27 NTU		
		800 819		
		100 103		
Myron L Ultrameter II	6206855	4.0 pH → 4.0	6/6/07	P. Cornish, S. Rose
		7.0 pH → 7.0	↓	↓
		10.0 pH → 10.0	↓	↓
		3900 µS → 3900	↓	↓
Myron L Ultrameter II	6210588	4.0 pH → 3.7		
		7.0 pH → 7.0		
		10.0 pH → 9.86		
		3900 µS → 3897		
Hach Turbidimeter	060000C017103	20 NTU → 17.4 NTU		
~~DO Meter YSI~~		100 NTU → 102 NTU		
DO Meter YSI		100% → 102		
YSI 556 Flowcell	07C2008 AO	DO → 100% → 101.3%		P. Cornish
		PH 7.0 pH → 7.04 pH		
		10.0 → 9.86		
		4.0 → 3.88		
		3900 µS → 3902 µS		

ORP @ 15.0C° → 244 mV readings @ 14.26C° → 242.4 mV

Field Instrument Calibration Log

Major Work Order No.: 2893

Project Name: Precision, S.F.

Instrument Type	Instrument SN	Calibration Type	Date	By
Myron L ultrameter	62105486	4.0 pH → 4.05 pH	6/8/07	
		7.0 → 6.97		
		10.0 → 10.09		
		3900 µs → 3897 µs		
	ORP	251 mV @ 10C° → 265 mV @ 11.1		
Hach 2100P Turbidimeter	4650000	<.1 NTU → .18 NTU	6/8/07	
		100 NTU → 103 NTU		
		800 NTU → 818 NTU		
YSI 550A	05G1886	~~100~~ DO → 100% → 100.9	6/8/07	
YSI 550A	05G1886	checked in well →	mg/L	P. Cornish 0.40
YSI 550A	03606821		~~mg/L~~	D. Raynal 0.46
			0.40	
→ Both meters checked @ 231GW27				

Field Instrument Calibration Log

Major Work Order No.: Pasiche Trust

Project Name: Trendwell + Rollo

Instrument Type	Instrument SN	Calibration Type	Date	By
YSI 550A DO	05G1886 AA	100%	6/5/07	DR
Meter	03C0684 AA	100%	6/6/07	DR
	"	100%	6/7/07	DR
	"	100%	6/8/07	DR
ORP HORIBA	817007	25°C 238 mV	6/5/07	DR
		27°C 231 mV	6/6/07	DR
		25°C 239 mV	6/7/07	DR
		23°C 242 mV	6/8/07	
Myron L Ultrameter	6211286	pH 7.0 10.0 4.0 Cond 3900	6/5/07	
	↓	7.01 10.0 3.99 3897 25°C	↓	DR
		7.0 10.01 3.98 3901 20.6°C	6/6/07	DR
		7.01 9.98 4.01 3900	6/7/07	DR
	↓	7.0 10.01 4.0 3902	6/8/07	DR
Hach Turbidimeter	000700 18253	560 5.5 5.7 551 5.2 5.3	6/5/07	DR
	↓	560 5.5 5.7 553 5.4 5.4	6/6/07	DR
		560 5.5 5.7 552 5.5 5.6	6/7/07	DR
	↓	560 5.5 5.7 558 5.4 5.7	6/8/07	DR

Field Instrument Calibration Log

Major Work Order No.: 2893

Project Name: Presidio

Instrument Type	Instrument SN	Calibration Type	Date	By
Hach turbidimeter	05110C014694	Standards	6-5-07	BP
Myron Ultrameter	612495	liquid standards	6-5-07	BP
YSI 550A	03G1029	100%	6-5-07	BP
Horiba ORP	812014	Standards liquid	6-5-07	BP
Hach Turbid	05110C014694	Standards	6-6-07	BP
Myron Ultra	612495	liquid standards	6-6-07	BP
YSI 550A	03G1029	100%	6-6-07	BP
Horiba ORP	812014	Standard	6-6-07	BP
YSI 556	05C1520AH	Standards	6-6-07	BP
YSI 550A	03G1029	100%	6-7-07	BP
Horiba ORP	812014	Standard	6-7-07	BP
Hach turbid	05110C014694	standard	6-7-07	BP
YSI 556	05C1520AH	Standards	6-7-07	BP

APPENDIX C
Groundwater Level Measurement Logs

First Quarter 2007

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
LF10GW01	905	8.61	8.61	8.61	8.61		S	NA	S	Y	Y	N	
LF10GW02	912	4.02	4.02	4.02	4.02		S	NA	S	Y	Y	N	
LF10SP01	918	seep running -					-	surface					
LF08PZ01	935	13.68	13.68	to 13.68	13.68		F	S	S	Y	Y	N	1/2 bolts Missing
LF08PZ02	938	31.16	31.16	31.16	31.16		F	G	G	Y	Y	N	
LF08GW01	943	20.81	20.81	20.81	20.81		S	NA	S	Y	Y	N	
LF08GW06	945	19.95	19.95	19.95	19.95		S	NA	S	Y	Y	N	
LF08GW03	948	38.25	38.25	38.25	38.25		S	NA	S	Y	Y	N	
LF08GW02B	950	50.11	50.11	50.11	50.11		S	NA	S	Y	Y	N	
LF08GW04	952	35.38	35.38	35.38	35.38		S	NA	S	Y	Y	Y	
BB3SW101	1015	2.80	2.80	2.81	2.80	3.60	S	NA	NA	NA	Y	N	exposed PVC
BB3SW~~101~~ PZ102	1020	Dry				7.00	S	NA	NA	NA	Y	N	" "
BB3SW102	1026	2.48	2.48	2.48	2.48	3.14	S	NA	NA	NA	Y	N	" "
BB3SP01	1028	- Not running observed standing water -							surface				
NKGW02	1124	14.10	14.10	14.10	14.10		F	G	G	N	Y	N	
NKGW04	1128	10.18	10.18	10.18	10.18		F	D	D	Y	Y	N	1/2 tabs Missing; 1/2 bolts missing
NKGW01	1139	33.25	33.25	33.25	33.25		F	G	G	N	Y	N	

Date: 2/26/07 Consultant: T&R

Page No.: Field Staff: P. Cornish BTS

Field Staff Signature:

BB3SW100 1125 4.60 4.60 4.60 TD 4.89 S WA No seal or casing protection exposed PVC
4/2/29/07

BB3SW104 1128 Not running Surface water point

19

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
937GW06	1420	5.38	5.38	5.38	5.38		F	G	G	Y	Y	N	
937GW42	1430	5.35	5.35	5.35	5.35		F	G	G	Y	Y	N	under puddle - barrier
937GW32R	1440	5.38	5.38	5.38	5.38		F	G	G	~~Y~~	Y	N	" " built around
BB1PZ100	1058	3.54	3.54	3.54	3.54		S	NA	G	N	Y	Y	
BB1PZ101	1054	4.27	4.27	4.27	4.27		S	NA	G	N	Y	Y	lock replaced
BB3BSW100	1115	Not	running										

Date: 2/26/07
Page No.:
Consultant:
Field Staff: P. Cornish
Field Staff Signature:

(5)

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
LF6GW106	1138	10.69	10.69	10.69	10.69		F	G	G	Y	Y	Y	
LF6GW104	1147	12.76	12.77	12.77	12.77		F	G	G	N	Y	Y	
LF6GW105	1154	22.43	22.43	22.43	22.43		F	G	G	N	Y	Y	
FM14EX07GW102	1205	25.94	25.94	25.94	25.94		F	G	G	N	Y	Y	
FM14EX07GW101	1209	28.40	28.40	28.40	28.40		F	D	G	Y	Y	Y	Broken Tab.
514AGW101	1222	21.47	21.47	21.47	21.47		F	G	G	N	Y	Y	
LF01GW06	1308	62.54	62.54	62.54	62.54		F	G	G	N	Y	Y	-1 bolt. 1 bolt stripped.
979GW117	1411	8.98	8.98	8.98	8.98		F	G	G	N	Y	Y	
979GW116	1415	7.95	7.98	7.95	7.95		F	D	G	N	Y	Y	Two broken tabs
979GW115	1419	8.02	8.02	8.02	8.02		F	G	G	N	Y	Y	
979GW111R	1428	15.47	15.47	15.47	15.47		F	G	G	N	Y	Y	
979GW112	1433	15.53	15.53	15.53	15.53		F	D	D	Y	Y	Y	Apron cracked
937 979GW106	1438	9.56	9.56	9.56	9.56		F	D	G	Y	Y	Y	Apron cracked
937 979GW107	1442	10.93	10.93	10.93	10.93		F	D	G	Y	N	Y	Apron cracked

Date: 2/26/07
Page No.: 3
Consultant: Treadwell & Rollo
Field Staff: DR
Field Staff Signature:

(14)

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
1027MW03	909	9.03	9.03	9.03	9.03		F	G	G	N	Y	Y	
1027MW01	913	9.08	9.08	9.09	9.09		F	D	G	Y	Y	Y	Bolts are stripped
1065PZ3B	918	9.35	9.35	9.35	9.35		F	G	G	Y	Y	Y	
1065PZ3A	922	9.60	9.60	9.60	9.60		F	G	G	Y	Y	Y	
LF6GW101	925	11.98	11.98	11.98	11.98		F	G	G	N	Y	Y	
1065PZ6B	929	11.00	11.00	11.00	11.00		F	G	D	N	Y	Y	Annular seal has broken away
LF6GW103	939	7.50	7.50	7.50	7.50		F	G	G	N	Y	Y	
1065PZ7A	942	3.28	3.28	3.28	3.28		F	S	G	Y	Y	Y	well box is below grade
1065PZ7B	945	2.90	2.90	2.90	2.90		F	S	G	Y	Y	Y	well box is below grade
1065MW11A	951	8.95	8.95	8.95	8.95		F	G	G	Y	Y	Y	
1065MW11B	955	8.72	8.72	8.72	8.72		F	G	G	Y	Y	Y	
LF6GW100	1003	12.97	12.97	12.97	12.97		F	G	G	Y	Y	Y	
1647MW101	1007	4.69	4.69	4.69	4.69		F	G	G	N	Y	Y	
1065PZ5AR	1013	3.39	3.39	3.39	3.39		F	G	G	N	Y	Y	
1065PZ5B	1010	2.57	2.57	2.57	2.57		F	G	G	N	Y	Y	
1065MW10A	1014	4.30	4.30	4.30	4.30		F	G	G	N	Y	Y	
1065MW10B	1018	3.37	3.37	3.37	3.37		F	G	G	N	Y	Y	

Date: 2/26/07

Page No.: 1

Consultant: Treadwell + Rollo

Field Staff:

Field Staff Signature:

1065PZ6A unable to locate by D. Raynal

(17)

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
1065PZ2A	1027	3.20	3.20	3.20	3.20		F	G	G	Y	Y	Y	
1065PZ2B	1024	1.55	1.55	1.55	1.55		S	G	G	N	Y	Y	
1065MW9A	1032	3.48	3.48	3.48	3.48		F	G	G	N	Y	Y	
1065MW9B	1036	0.00	0.00	0.00	0.00		F	G	G	Y	N	Y	No lock
1065MW101	1040	5.70	5.70	5.70	5.70		F	G	G	N	Y	Y	
1065PZ1A	1048	5.40	5.40	5.40	5.40		F	G	G	Y	Y	Y	
1065PZ1B	1044	1.51	1.51	1.51	1.51		F	G	G	N	Y	Y	
1065MW102	1054	3.55	3.55	3.55	3.55		F	G	G	N	Y	Y	
1065PZ4A	1100	5.15	5.15	5.15	5.15		F	G	G	N	Y	Y	
1065PZ4B	1057	2.45	2.45	2.45	2.45		F	G	G	N	Y	Y	
LF6PZ101	1117	1.21	1.21	1.21	1.21		S	G	NA	N	N	Y	PVC sticking out of ground
LF6PZ102	1119	0.19	0.19	0.19	0.19		S	G	NA	N	N	Y	" "
LF6PZ103	1121	2.95	2.95	2.95	2.95		S	G	NA	N	N	Y	" "
LF6PZ104	1123	7.00	7.00	7.00	7.00		S	G	NA	N	N	Y	" "
~~LF6GW102~~	Abandoned												Abandoned
LF6PZ106	1126	4.76	4.76	4.76	4.76		S	G	NA	N	N	Y	PVC sticking out of ground
LF6PZ105	1130	0.25	0.25	0.25	0.25		S	G	NA	N	N	Y	" "

Date: 2/26/07

Page No.: 2

Consultant: Treadwell + Rollo

Field Staff: DR

Field Staff Signature:

(16)

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
9376W07	1411	8.52	8.52	8.52			S	G	G	N	Y	N	
9376W15	1413	6.95	6.95	6.95			S	D	G	N	Y	N	NO CAP
9376W37	1416	6.81	6.81	6.81			S	G	G	N	Y	N	
9376W38	1420	3.85	3.85	3.85			F	G	G	Y	Y	N	
9376W12	1423	2.45	2.45	2.45			F	G	G	Y	Y	N	
9376W101	1429	6.18	6.18	6.18			F	G	G	N	Y	N	
9376W102	1432	6.35	6.35	6.35			F	G	G	N	Y	N	
9376W103	1436	6.13	6.13	6.13			F	G	G	N	Y	N	
9376W39	1446	7.88	7.88	7.88			F	D	G	N	Y	N	well box above grade, rusty
9376W105	1450	5.40	5.40	5.40			F	G	G	N	Y	N	
9376W104	1452	7.01	7.01	7.01			F	G	G	N	Y	N	

Date: 2/26/07
Page No.: 4/4

Consultant: TTR
Field Staff: David Allen
Field Staff Signature: David Allen

(11)

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
2076W03	0902	3.91	3.91	3.91			F	6	6	Y	Y	N	
2316W10	0907	3.25	3.25	3.25			F	6	6	N	Y	N	
2316W23	0912	3.23	3.23	3.23			F	6	6	Y	Y	N	
2316W25	0915	4.10	4.10	4.10			F	6	6	Y	Y	N	1/2 bolts missing
2316W30	0921	5.60	5.60	5.60			F	6	6	Y	Y	N	
2316W13	0923	2.62	2.62	2.62			S	6	6	N	Y	N	
2316W15	0926	3.72	3.72	3.72			F	6	6	N	Y	N	
2316W16	0928	5.62	5.62	5.62			F	6	6	Y	Y	N	
2316W24	0931	3.98	3.98	3.98			F	6	6	N	Y	N	
2316W17	0936	1.42	1.42	1.42			F	6	6	N	Y	N	
2316W18	0941	2.65	2.65	2.65			F	6	6	Y	Y	N	
2316W19	0943	3.81	3.81	3.81			F	6	6	N	Y	N	
2316W09	0947	13.17	13.17	13.17			F	6	6	N	Y	N	
2316W28	0951	3.65	3.65	3.65			F	6	6	Y	Y	N	
2316W29	0955	2.66	2.66	2.66			F	6	6	Y	Y	N	
OW-1	0958	2.21	2.21	2.21			F	6	6	N	Y	N	
231PZ02	1001	5.62	5.62	5.62			F	6	6	Y	Y	N	hydrocarbon odor

Date: 2/26/07

Page No.: 1 of 4

Consultant: T+R

Field Staff: David Allbut

Field Staff Signature: David Allbut

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
231PZ01	1005	6.16	6.16	6.16			F	6	6	Y	Y	N	
2316W27	1013	10.42	10.42	10.42			F	6	6	N	Y	N	
2316W22	1019	~~6.74~~	6.74	6.74			F	6	6	Y	Y	N	Hydrocarbon odor
2316W26	1023	7.00	7.00	7.00			F	6	6	Y	Y	N	
231PZ04	1025	4.75	4.75	4.75			F	6	6	Y	Y	N	
231PZ03	1031	5.10	5.10	5.10			F	6	6	Y	Y	N	
2316W11	1036	2.23	2.23	2.23			F	6	6	Y	Y	N	1/2 bolts missing
2316W06	1041	4.87	~~4.87~~	4.87			F	6	6	N	Y	N	1/2 bolts missing
2316W21	1044	5.36	5.36	5.36			F	6	6	N	Y	N	
2316W20	1047	2.19	2.17	2.17			F	6	6	N	Y	N	
DAEGW07	1130	9.52	9.50	9.50			S	6	6	N	Y	N	
DAEGW08	1133	19.52	19.52	19.52			S	6	6	N	Y	N	
DAEGW103	1137	27.78	27.78	27.78			F	6	6	N	Y	N	
DAESP03	1139	NOT FLOWING											
DAEGW101	1142	41.94	41.94	41.94			S	6	6	N	Y	N	
DAEGW05	1145	52.53	52.53	52.53			S	6	6	N	Y	N	NO LOCK
DAEGW03	1148	53.75	53.75	53.75			F	6	6	N	Y	N	

Date: 2/26/07

Page No.: 2 / 4

Consultant: TTR

Field Staff: David Allbut

Field Staff Signature: David Allbut

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
OAEPZ102	1152	28.90	28.90	28.90			F	6	6	N	Y	N	
OAEPZ101	1157	26.36	26.36	26.36			F	6	6	N	Y	N	
OAE6W06	1202	14.73	14.73	14.73			S	6	6	N	Y	N	
OAE6W102	1205	13.10	13.10	13.10			F	6	6	N	Y	N	
OAE6W104	1208	15.25	15.25	15.25			S	6	6	N	Y	N	
OAE6W04	1216	42.10	42.10	42.10			F	6	6	N	Y	N	
LF016W05	1232	8.15	8.15	8.15			F	6	6	N	Y	N	
EPSP01	1236	Spring running											
LF026W01	1239	0.30	0.30	0.30			F	6	6	N	Y	N	
LF026W02	1244	2.08	2.08	2.08			F	6	6	N	Y	N	
LF016W01	1247	5.40	5.40	5.40			S	6	6	N	Y	N	
LF016W02	1251	22.90	22.90	22.90			S	6	6	N	Y	N	
LF016W03	1305	47.78	47.78	47.78			S	6	6	N	Y	N	
LF016W07	1308	55.23	55.23	55.23			S	6	6	N	No lock	N	no lid
LF016W04	1314	54.10	54.10	54.10			S	6	6	N	Y	N	
LF026W04	1334	17.76	17.76	17.76			S	6	6	N	Y	N	

Date: 2/26/07
Page No.: 3 of 4

Consultant: T&R
Field Staff: David Allbut
Field Staff Signature: David Allbut

(16)

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
1349mw01	1232	24.80	24.80	24.80	24.80		F	D	G	Y	Y	no	tabs stripped 1/2
1349mw03	1243	33.34	33.34	33.35	33.34		S	G	G	n	Y	no	
1349mw02	1247	28.90	28.90	28.90	28.90		f	G	G	n	Y	no	
1349mw100	1256	26.81	26.81	26.81	26.81		f	G	G	Y	Y	no	
1349mw3R	1303	24.66	24.66	24.66	24.66		S	G	G	n	Y	no	
1349mw104	1310	25.12	25.12	25.12	25.12		f	G	G	n	Y	no	
LF5GW104	1319	20.76	20.76	20.76	20.76		S	G	G	n	Y	no	
LF5GW103	1322	7.46	7.49	7.49	7.48		S	G	G	n	Y	no	
LF5GW102	1327	25.37	25.37	25.37	25.37		S	G	G	n	Y	no	
979GW113	1416	6.27	6.27	6.27	6.27		f	G	G	Y	Y	no	
979GW114	1439	6.86	6.85	6.86	6.86		f	G	G	Y	Y	no	
979GW109	1419	6.00	6.00	6.00	6.00		f	D	G	Y	Y	no	1/2 tabs
979GW110	1423	7.08	7.08	7.09	7.08		f	G	G	Y	Y	no	
937GW35	1428	5.97	5.97	5.97	5.97		f	G	G	Y	Y	no	
950GW108	1431	7.62	7.61	7.60	7.61		f	D	G	Y	Y	no	1/2 tabs
1349MW102	1312												Could not locate
LF5SP1100	1038	seep Not running											

Date: 2-26-07
Page No.: 2 of 2

Consultant: Treadwell + Rollo
Field Staff: B. Summerset
Field Staff Signature:

16

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
Lf 106GW100	914	40.15	40.16	40.16	40.16		F	G	G	n	y	n	
Lf 106GW03	931	40.90	40.91	40.91	40.91		F	G	G	n	y	n	
BB3 GW100	1015	26.30	26.32	26.31	26.31	38.60	S	G	G	n	y	n	
BB3GW101	1019	27.39	27.39	27.39	27.39	27.95	S	G	G	n	y	n	
BB3 PZ101	1022	Dry	Dry	Dry	Dry	18.05	S	G	G	n	y	n	
Lf5GW100	1037	7.47	7.48	7.48	7.48	?	F	G	G	n	y	n	
Lf5GW101	1040	5.80	5.80	5.81	5.80		F	G	G	n	y	n	
Lf 4 GW102	1135	29.03	29.03	29.02	29.03		S	G	G	n	y	n	
Lf 4 GW106	1142	15.92	15.90	15.94	15.92		S	G	G	n	y	n	
Lf4Gw 100	1144	20.59	20.59	20.59	20.59		S	G	G	n	y	n	
Lf4 GW103	1146	21.61	21.61	21.62	21.61		S	G	G	n	y	n	
Lf4 GW104	1150	20.22	20.22	20.22	20.22		S	G	G	n	y	n	
Lf 4 GW03	1203	18.26	18.25	18.26	18.26		S	G	G	n	y	n	
Lf 4 GW105	1154	31.05	31.05	31.06	31.05		S	G	G	n	y	n	
Lf 4 GW101	1158	Dry	Dry	Dry	Dry	19.40	S	G	G	n	y	n	
1349mw105	1226	26.33	26.33	26.33	26.33		S	G	G	n	y	n	
1349mw104	1229	29.95	29.96	29.96	29.96		S	G	G	n	y	n	

Date: 2-26-07

Page No.:

Consultant: Treadwell + Rollo

Field Staff: B. Summerset

Field Staff Signature:

17

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
NKGW05	1149	24.50	24.50	24.50	24.50		F	G	G	Y	Y	N	
NKGW03	1159	14.50	14.50	14.50	~~15.12~~	15.12	S	NA	S	N	Y	N	
1221GW101	1210	9.58	9.58	9.58	9.58		F	G	G	Y	Y	N	Motorcycle PD contacted for access
1221GW103	1215	12.09	12.09	12.09	12.09		F	G	G	Y	Y	N	
1221GW102	1220	7.42	7.42	7.42	7.42		F	G	G	Y	Y	N	
1231GW104	1222	13.66	13.66	13.66	13.66		F	G	G	Y	Y	N	
BHWGW04	1240	12.00	12.00	12.00	12.00		F	G	G	N	Y	Y	
BHWGW05	1248	28.48	28.48	28.48	28.48		F	G	G	N	Y	Y	
BHWGW01	1251	18.75	18.75	18.75	18.75		F	G	G	N	Y	Y	
HWGW102	1255	~~35.80~~	~~35.80~~	~~35.80~~	~~35.80~~	Dry 35.80	F	S	G	N	Y	Y	1/2 tabs Missing
HWGW~~103~~100	1302	27.11	27.11	27.11	~~27.11~~		F	G	G	N	Y	Y	
HWGW~~101~~	1305	26.70	26.70	26.70	~~26.70~~		F	G	G	N	Y	Y	
1213GW101	1310	24.15	24.15	24.15	24.15		F	S	G	Y	Y	N	1/2 tabs broken
1260GW103	1312	16.22	16.22	16.22	16.22		F	G	G	Y	Y	N	
1260GW101	1314	25.57	25.57	25.57	25.57		S	NA	G	N	Y	N	
1260GW102	1318	29.22	29.22	29.22	29.22		S	NA	G	N	Y	N	
937GW108	1410	4.89	4.89	4.89	4.89		F	G	G	Y	Y	N	

Date: 2/26/07

Page No.:

Consultant:

Field Staff: D. Cornish

Field Staff Signature:

Second Quarter 2007

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GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	TREADWELL & ROLLO Comments / Action Taken
BB3SW104	1142	seep Not running				-	surface					N	
BB3PZ102	1148	Dry	—	—	~~Ave~~	7.00	PVC	Exposed			Y	N	
BB3SW101	1152	2.87	2.87	2.87		3.61	"	"			Y	N	
BB3PZ101	1155	Dry	—	—		18.02	"	"			Y	N	
BB3GW100	1200	~~30.44~~	30.44	30.44		38.64	S	G	G	N	Y	N	
FM14EXGW102	1315	26.42	26.42	26.42			F	G	G	N	Y	Y	
FM14EXGW101	1318	28.86	28.86	28.86			F	S	G	Y	Y	N	1/2 tabs broken, No Rim seal
DAESP03	1330	seep Not running					surface	—	—	—	—	—	
106SPEZB	1345	1.92	1.92	1.92			S	G	G	N	Y	N	
610GW103	1420	5.04	5.04	5.04			F	G	G	Y	Y	N	
OW-1	1515	2.40	2.40	2.40			F	G	G	N	Y	N	
BB3SW102	1125	3.08	3.08	3.08		3.17	Exposed	PVC - 4" to pipe - cap & lat present					
unable to locate until 6/7/07													

Date: 6/4/07
Page No.:
Consultant: T&R / BTS
Field Staff: P.Cornish, S.Rose
Field Staff Signature:

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
231GW30	1318	5.09	5.10	5.10	5.10		S	G	G	N	Y	N	
2316W16	1323	5.45	5.45		5.45		S	G	G	N	Y	N	

Date: 6-4-07
Page No.: 3 of 3
Consultant: BTS
Field Staff: Brian Proud
Field Staff Signature:

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
1027mw03	0932	9.45	"	"	9.45		F	G	G	N	Y	Y	
1027MW01	0939	9.29	"	"	9.29		F	S	G	Y	Y	Y	Bolts shaped.
1065P2 3A	0946	9.89	"	"	9.89		F	G	G	Y	Y	Y	
1065P2 3B	09419	9.56	"	"	9.56		F	G	G	Y	Y	Y	
1065 P2 6B	0955	11.41	"	"	11.41		F	S	D	N	Y	Y	Annular Seal severely damaged
1065 P2 6A	* Can't	find due to soil and tan-bark covering well.											
1065 MW11A	1000	9.30	"	"	9.30		F	G	G	N	Y	Y	
1065MW 11B	10 04	9.12	"	"	9.12		F	G	G	Y	Y	Y	
1047 MW101	1010	5.04	"	"	5.04		F	G	G	N	Y	Y	
1065 PZ 5B	1012	2.86	"	"	2.86		F	G	G	N	Y	Y	
1065 PZ5AR	1015	3.84	"	"	3.84		F	G	G	N	Y	Y	
1065 MW10A	1020	4.30	"	"	4.30		F	G	G	N	Y	Y	
1065 MW 10B	1023	3.70	"	"	3.70		F	G	G	N	Y	Y	
~~1065 MW2B~~													
1065 PZ 2A	1030	3.47	"	"	3.47		F	G	G	N	Y	Y	
1065 MW101A	1041	5.58	"	"	5.58		F	G	G	N	Y	Y	
1065 MW 103A	1048	5.11	"	"	5.11		F	G	G	N	Y	Y	

Date: 6/4/07

Page No.: 1

Consultant: Treadwell + Rollo

Field Staff: DR

Field Staff Signature:

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
1065 mw 10A	1055	5.89	"	"	5.89		F	G	G	N	Y	Y	
1065 PZ 4A	1100	5.54	"	"	5.54		F	G	G	N	Y	Y	
1065 PZ 4B	1103	2.55	"	"	2.55		F	G	D	N	Y	Y	Annular seal is damaged
1065 PZ7A	1116	3.56	"	"	3.56		F	G	G	N	Y	Y	
1065 PZ7B	1123	3.10	"	"	3.10		F	G	G	N	Y	Y	
231 GW 29	1141	2.68	"	"	2.68		F	G	G	N	Y	Y	
231 GW 28	1145	4.08	"	"	4.08		F	G	G	N	Y	Y	
231 GW 09	1150	13.41	"	"	13.41		F	S	G	N	Y	Y	bolts are stripped
231 GW 11	1159	2.76	"	"	2.76		F	S	G	N	Y	Y	1 bolt missing
231 GW 26	1211	7.31	"	"	7.31		F	G	G	N	Y	Y	
231 GW 22	1213	6.77	"	"	6.77		F	G	G	Y	Y	Y	
231 PZ 01	1220	6.31	"	"	6.31		F	G	G	Y	N	Y	No lock 1" well.
231 PZ 02	1223	6.04	"	"	6.04		F	D	G	N	N	Y	Lid broken. No lock 1" well
231 PZ 03	1227	5.60	"	"	5.60		F	G	G	N	N	Y	No lock. 1" well
231 PZ 04	1231	5.20	"	"	5.20		F	G	G	N	N	Y	No lock. 1" well
231 GW 06	1240	5.18	"	"	5.18		F	S	G	N	Y	Y	missing 1 bolt
231 GW 21	1243	5.60	"	"	5.60		F	G	G	N	Y	Y	

Date: 6/4/07

Page No.: 2

Consultant: Treadwell + Rollo

Field Staff: DR

Field Staff Signature:

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
231GW20	1247	2.50	"	"	250		F	S	G	N	Y	Y	1 tab stripped.
231GW27	1252	10.78	10.79	10.79	10.79		F	S	G	N	Y	Y	Lid off is stripped
231GW17	1305	1.60	"	"	1.60		F	G	G	N	Y	Y	
231GW18	1308	2.76	"	"	2.76		F	G	G	Y	Y	Y	
231GW19	1312	4.46	"	"	4.46		F	D	G	N	Y	Y	missing 1 bolt. Lid broken.
61QSP01	1500	* seep	point at	waters	edge,								
61QSP02	1502	* seep	sample	point	submerged.								

Date: 6/4/07
Page No.: 3
Consultant: Treadwell + Rollo
Field Staff: DR
Field Staff Signature:

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
LF4GW101	959	dry			dry	20.88	S	G	G	N	Y	N	roots in well?
LF4GW105	1008	31.93	31.91	31.91	31.91		S	G	G	N	Y	N	
LF4GW104	1014	20.79	20.80	20.80	20.80		S	G	G	N	Y	N	
LF4GW103	1020	21.36	21.37	21.36	21.36		S	G	G	N	Y	N	
LF4GW100	1026	21.60	21.60	21.60	21.60		S	G	G	N	Y	N	
LF4GW106	1029	19.50	19.47	19.47	19.48		S	G	G	N	Y	N	
LF4GW102	1033	30.50	30.50	30.50	30.50		F	G	G	N	Y	N	
LF04GW03	1038	18.62	18.60	18.61	18.61		S	G	G	N	Y	Y	
1349mw104	1053	30.57	30.57	30.57	30.57		S	G	G	N	Y	N	
1349mw101	1058	26.66	26.66	26.65	26.66		F	G	G	N	Y	N	
1349mw02	1102	29.68	29.67	29.67	29.67		F	G	G	N	Y	N	
1349mw01	1109	25.72	25.70	25.70	25.71		F	G	G	N	Y	N	
1349mw03R	1115	26.65	26.64	26.64	26.64		S	G	G	N	Y	N	
1349mw103	1119	33.76	33.76		33.76		S	G	G	N	Y	N	
1349mw105	1125	26.35	26.35		26.35		S	G	G	N	Y	N	
1349mw102	1130						-						Unable to locate
1349mw100	1136	27.74	27.73	27.73	27.73		F	G	G	Y	Y	N	

Date: 6-4-07

Page No.: 1 of 2

Consultant: BTS

Field Staff: Brian Pound

Field Staff Signature:

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
LF1OGW03	0922	42.30	42.30	42.30			F	G	~~X~~G	N	Y	Y	
LF1OGW100	0930	41.22	41.22	41.22			F	G	G	Y	Y	N	
LF1OGW01	0938	10.81	10.81	10.81			S	G	S	Y	Y	Y	Veg. on Path to well
LF1OGW02	0945	4.04	4.04	4.04			S	G	S	Y	Y	N	" " " " "
LF1OSP01	0950	seep	Running				surface water						
BB1PZ100	1015	3.61	3.61	3.61			S	G	G	N	Y	N	
BB1PZ101	1010	3.78	3.78	3.78			S	G	G	N	Y	N	
BB2SW100	1022	seep	Not Running				surface point						
1213GW101	1045	27.52	27.52	27.52			F	G	G	Y	Y	N	lock degraded; 1/2 tab broken
BHWGW04	1050	13.28	13.28	13.28			F	G	G	N	Y	N	1/2 tabs stripped
BHWGW05	1055	28.12	28.12	28.12			F	G	G	N	Y	N	
BHWGW01	1100	20.75	20.75	20.75			F	G	G	N	Y	Y	Blackberry overhanging wellbox
HWGW102	1108	Dry				35.75	F	G	G	N	Y	N	1/2 tabs broken
HWGW101	1115	26.46	26.46	26.46			F	G	G	N	Y	N	
HWGW100	1120	27.05	27.05	27.05			F	G	G	N	Y	N	
BB3GW101	1134	27.41	27.41	27.41		27.95	S	G	G	N	Y	N	
BB3SW100	1140	4.18	4.18	4.18		4.83	PVC	Exposed		-	Y	-	

Date: 6/4/07

Page No.:

Consultant: T&R / BTS

Field Staff: D. Cornish, S. Rose

Field Staff Signature: [signature]

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
610GW101	1156	3.61	3.60	3.60	3.60		F	G	G	N	Y	N	
610GW102	1201	4.04	4.04		4.04		F	G	G	N	Y	N	
600GW102	1207	4.30	4.31	4.31	4.31		F	G	G	Y	Y	N	
600GW103	1211	2.90	2.90		2.90		F	G	G	N	Y	N	
600GW104	1216	3.57	3.57		3.57		F	G	G	N	Y	N	
600GW109	1222	4.44	4.43	4.43	4.43		F	G	G	N	Y	N	
600GW108	1229	5.27	5.27		5.27		F	G	G	N	Y	N	
600GW107	1233	4.60	4.61	4.61	4.61		F	G	G	N	Y	N	
600GW106	1238	3.22	3.21	3.21	3.21		S	G	G	N	Y	N	
600GW105	1242	2.95	2.92	2.92	2.93		S	G	G	N	Y	N	
231GW13	1249	2.95	2.94	2.94	2.94		S	G	G	N	Y	N	
231GW15	1253	4.27	4.27		4.27		F	G	G	N	Y	N	
231GW24	1256	4.49	4.47	4.46	4.47		F	G	G	N	Y	N	
231GW23	1300	3.40	3.40		3.40		F	G	G	N	Y	N	
231GW25	1307	4.27	4.27		4.27		F	G	G	N	Y	N	
207GW03	1311	4.51	4.50	4.50	4.50		F	G	G	N	Y	N	
231GW10	1314	3.46	3.46		3.46		F	G	G	N	Y	N	

Date: 6-4-07

Page No.: 2 of 3

Consultant: Blaine Tech

Field Staff: Brian Prong

Field Staff Signature:

APPENDIX D
DataVal Data Validation Summary Reports

First Quarter 2007

TO: Joshua Graber, Treadwell & Rollo, Inc. March 16, 2007

FROM: Donna Breaux, DataVal, Inc. Treadwell & Rollo Project No. 2893.04.51

DATA VALIDATION SUMMARY REPORT FOR THE NIKE SEEP SAMPLING EVENT, THE PRESIDIO OF SAN FRANCISCO, CA

LABORATORY: Curtis & Tompkins Laboratories, Berkeley, CA

SAMPLING DATE: March 7, 2007

Data validation of a Level III laboratory data package was performed according to the project-specific guidelines. These guidelines were outlined in the Presidio-wide Quality Assurance Project Plan, Sampling and Analysis Plan, April, 2001; and the U. S. Environmental Protection Agency Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 2004.

The data were reviewed for holding times, laboratory blanks, laboratory control samples, matrix spikes and matrix spike duplicates, ICP interference check standards, ICP serial dilutions, initial calibrations and continuing calibration verification standards.

The following paragraphs highlight the essential findings of the data validation effort:

I. Total and Dissolved Metals (6020/7470A)

Overall, the data are usable as reported. Qualification was not required.

A. Reporting Limits

The laboratory reporting limits for metals in water matrix samples met the project required reporting limits listed in Tables 2-5.21-1 and 2-5.26-1 of the QAPP.

B. Holding Times

Technical holding time criteria were met for the project sample.

C. Blanks

Target analytes were not observed in any laboratory method blanks associated with the project sample, with the following exception:

1. Method blank QC378195 had a detected level of copper at 1.4 ug/L. The level of copper present in the associated project sample was greater than five times the blank amount, and qualification was not required.

D. Laboratory Control Samples

All QC criteria were met for the laboratory control samples associated with the project sample.

E. Matrix Spike/Matrix Spike Duplicate

All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project sample, with the following exception:

1. The percent recoveries for calcium and magnesium were outside the 75%-125% project acceptance criteria in QC sample 1065PZ7A (193027-002) MS. The amounts of calcium and magnesium present in the parent sample were greater than four times the amounts spiked and qualification was not required. (QC Batch 122867)

F. ICP Interference Check Standards

All QC criteria were met for the ICP interference check standards associated with the project sample.

G. ICP Serial Dilution

All QC criteria were met for the ICP serial dilutions associated with the project sample.

H. Initial and Continuing Calibrations

All initial and continuing calibration standards associated with the project sample met QC acceptance criteria.

SUMMARY

The attached Table 1 lists the sample and analysis that were included in the data validation effort.

USABILITY

Qualification was not required for the project sample. Based upon the cursory data validation, all reported results are considered valid and usable for all purposes.

Table 1
Sample Summary
Nike Seep Sampling Event
The Presidio of San Francisco, CA

Site Sample ID	Laboratory Sample ID	Date Sampled	Analysis	Sample Type
NKSW100	193213-001	7-Mar-07	Total and Dissolved Metals (6020, 7470A)	Water

TO: Joshua Graber, Treadwell & Rollo, Inc. May 7, 2007

FROM: Donna Breaux, DataVal, Inc. Treadwell & Rollo Project No. 2893.04

DATA VALIDATION SUMMARY REPORT FOR THE FIRST QUARTER 2007 GROUNDWATER MONITORING, THE PRESIDIO OF SAN FRANCISCO, CA

PRIMARY LABORATORY: Curtis & Tompkins, Ltd., Berkeley, CA

QC SPLIT SAMPLE LABORATORY: Columbia Analytical Services, Inc., Kelso, WA

SAMPLING DATES: February 27, 28, March 1, 2 and 5 through 8, 2007

Data validation of Level III laboratory data packages was performed according to the project-specific guidelines. These guidelines were outlined in the Presidio-wide Quality Assurance Project Plan, Sampling and Analysis Plan, April, 2001; the U. S. Environmental Protection Agency Contract Laboratory Program National Functional Guidelines for Organic Data Review, October, 1999; the U. S. Environmental Protection Agency Contract Laboratory Program National Functional Guidelines for Low Concentration Organic Data Review, June, 2001; and the U. S. Environmental Protection Agency Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 2004.

The data were reviewed for holding times, surrogate recoveries, laboratory method blanks, laboratory control samples, laboratory duplicate samples, matrix spikes and matrix spike duplicates, GC/MS tunes, performance evaluation mix standards, ICP interference check standards, ICP serial dilutions, initial calibrations, continuing calibration verification standards, internal standards and field QC samples.

The following paragraphs highlight the essential findings of the data validation effort:

I. Volatile Organic Compounds (VOCs) by GC/MS (8260B)

Overall, the data are usable as reported with any added qualifiers. Qualifications were required for the reasons noted in Sections C and I.

A. Reporting Limits

The laboratory reporting limits for VOCs in water matrix samples met the project required reporting limits, with the following exception:

1. The laboratory reporting limits did not meet the project required reporting limits listed in Table 2-6.8-1 of the QAPP for bromoform, bromomethane, chloroethane, and chloromethane. The laboratory reported 1.0 ug/L for these compounds. The project required reporting limit was 0.5 ug/L.

B. Holding Times

Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries

Surrogate spike recoveries met QC acceptance criteria for all project samples, with the following exceptions:

1. Samples with high-failing surrogate recoveries and non-detected results did not require qualification, and were not noted in this report.
2. In several project samples, the percent recoveries for two surrogates failed the project acceptance criteria: 4-bromofluorobenzene (86%-115%) and 1,2-dichloroethane-d4 (76%-114%). The detected results in these samples were qualified as estimated with a high bias (J+). Qualification was not required for non-detect results. The following table lists the project samples that were qualified due to these QC failures.

Project Sample Name	Laboratory Sample ID	4-BFB % Recovery	1,2-DCA-d4 % Recovery
937GW104	193174-010	141%	---
979GW111R	193174-011	138%	---
937GW106	193174-014	151%	---
979GW113	193217-001	---	118%
DUP0306071B	193217-008	---	127%
937GW101	193217-009	---	128%
TB0306072A	193217-013	---	119%
HWGW100	193217-018	---	130%
DW030807B	193262-020	---	118%

See Table 2 of this report for a summary of qualifications due to surrogate percent recovery failure.

D. Blanks

Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples, with the following exceptions:

1. Trip blank TB0228073A (193055-015) had a detected level of chloroform at 5.3 ug/L. The levels of chloroform in the associated project samples were non-detect, and qualification was not required.
2. Trip blank TB0306072A (193217-013) had a detected level of chloroform at 0.5 ug/L. The levels of chloroform in the associated project samples were non-detect, and qualification was not required.
3. Source blank DW030807B (193262-020) had a detected level of benzene at 0.07 ug/L. The levels of benzene in the associated project samples were non-detect, and qualification was not required.

E. Laboratory Control Samples

All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples.

G. GC/MS Tunes
All QC criteria were met for the GC/MS tunes associated with the project samples.

H. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

I. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples, with the following exceptions:

1. Qualification was not required for samples with non-detect results that were associated with high-failing continuing calibration verification (CCV) standards. Those failures were not noted in this report.
2. The 3/6/07 at 8:31 CCV standard analyzed on instrument MSVOA05 had carbon disulfide with a percent difference (%D) less than the +/-25%D acceptance criteria at -28%. The non-detect results for carbon disulfide in the associated samples were qualified as estimated (UJ).
3. The 3/7/07 at 8:02 CCV standard analyzed on instrument MSVOA05 had carbon disulfide with a %D less than the +/-25%D acceptance criteria at -27%. The non-detect results for carbon disulfide in the associated samples were qualified as estimated (UJ).
4. The 3/8/07 at 11:36 CCV standard analyzed on instrument MSVOA05 had carbon disulfide with a %D less than the +/-25%D acceptance criteria at -32%. The non-detect results for carbon disulfide in the associated samples were qualified as estimated (UJ).
5. The 3/15/07 at 11:22 CCV standard analyzed on instrument MSVOA05 had carbon disulfide with a %D less than the +/-25%D acceptance criteria at -26%. The non-detect results for carbon disulfide in the associated samples were qualified as estimated (UJ).
6. The 3/15/07 at 12:30 CCV standard analyzed on instrument MSVOA10 had carbon disulfide with a %D less than the +/-25%D acceptance criteria at -27%. The non-detect results for carbon disulfide in the associated samples were qualified as estimated (UJ).
7. The 3/15/07 at 22:40 CCV standard analyzed on instrument MSVOA08 had bromomethane with a %D less than the +/-25%D acceptance criteria at -35%. The non-detect results for bromomethane in the associated samples were qualified as estimated (UJ).
8. The 3/19/07 at 15:55 CCV standard analyzed on instrument MSVOA05 had carbon disulfide with a %D less than the +/-25%D acceptance criteria at -41%. The non-detect results for carbon disulfide in the associated samples were qualified as estimated (UJ).

See Table 2 of this report for a summary of samples qualified for continuing calibration verification percent difference failure.

J. Internal Standards
Internal standard areas and retention times met QC acceptance criteria for all project samples.

II. N-Nitrosodimethylamine (NDMA) GC/MS (1625C)

Overall, the data are usable as reported with any added qualifiers. Qualification was required for the reason noted in Section D.

A. Reporting Limits
A project required reporting limit for NDMA in water matrix samples was not listed in the QAPP.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Labeled Compound Recoveries
Labeled compound recoveries met QC acceptance criteria for all project samples.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples, with the following exceptions:

1. Source blank DW030807B (193262-020) had a detected level of NDMA at 0.0021 ug/L. The results for NDMA in the associated samples were changed to non-detect (U) if those values were less than five times the blank amount.
2. Source blank DW030807A (193277-001) had a detected level of NDMA at 0.0113 ug/L. Project sample association with this blank could not be established, and qualification was not required.

See Table 2 of this report for a summary of qualifications due to blank contamination.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples.

G. GC/MS Tunes
GC/MS tunes were not analyzed with the project samples. The requirement to analyze a decafluorotriphenylphosphine (DFTPP) tuning standard applies only in full scan mode.

H. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

I. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples.

J. Internal Standards
Internal standard areas and retention times could not be verified with the information provided in the data package.

III. Total Petroleum Hydrocarbons (TPH) - Gasoline Range/Stoddard Solvent (8015B)

Overall, the data are usable as reported with any added qualifiers. Qualification was required for the reason noted in Section F.

A. Reporting Limits
The laboratory reporting limit for TPH-gasoline in water matrix samples met the project required reporting limit. A project required reporting limit was not provided for Stoddard solvent in the QAPP.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples, with the following exception:

1. The percent recovery for TPH-gasoline was outside the 65%-135% project acceptance criteria in QC sample NKGW02 (193217-011) MS at

60%. The non-detect result for TPH-gasoline in the parent sample was qualified as estimated (UJ). (QC Batch 123146)

See Table 2 of this report for a summary of qualifications due to matrix spike percent recovery failure.

G. Initial Calibration

Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration

Continuing calibration criteria were met for all continuing calibration standards associated with the project samples.

IV. Total Petroleum Hydrocarbons (TPH) – Diesel/Fuel Oil Range (8015B)

Overall, the data are usable as reported with any added qualifiers. Qualifications were required for the reasons noted in Sections B and F.

A. Reporting Limits

The laboratory reporting limits for TPH-diesel and TPH-fuel oil in water matrix samples met the project-required reporting limits.

B. Holding Times

Technical holding time criteria were met for all project samples, with the following exception:

1. Samples 1213GW101 (193108-012), DAEGW104 (193108-023), DAEGW03 (193108-025), DAEGW05 (193108-026), DUP0302071A (193108-027), 514AGW101 (193137-001), 937GW37 (193137-002), 937GW35 (193137-003), 937GW32R (193137-004) and NKGW04 (193137-005) were extracted one day past the fourteen-day extraction holding time for TPH-diesel and TPH-fuel oil. The sample results were non-detect and qualified as estimated (UJ).

See Table 2 of this report for a summary of qualifications due to missed analysis holding times.

C. Surrogate Recoveries

Surrogate spike recoveries met QC acceptance criteria for all project samples. Samples with high-failing surrogate recoveries and non-detected results did not require qualification, and were not noted in this report.

D. Blanks

Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples.

E. Laboratory Control Samples

All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate

All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples, with the following exception:

1. The percent recovery for TPH-diesel was outside the 65%-135% project acceptance criteria in QC sample DAEGW104 (193108-023) MS at 59%. The relative percent difference (RPD) for the MS/MSD pair failed the 35% project acceptance criteria at 47%. The non-detect result for TPH-diesel in the parent sample was qualified as estimated (UJ). (QC Batch 123229)

See Table 2 of this report for a summary of qualifications due to matrix spike percent recovery and relative percent difference failure.

G. Initial Calibration

Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration

Continuing calibration criteria were met for all continuing calibration standards associated with the project samples. Qualification was not required for samples with non-detect results that were associated with high-failing continuing calibration verification (CCV) standards. Those failures were not noted in this report.

V. Aromatic Volatiles by GC (8021B)

Overall, the data are usable as reported with any added qualifiers. Qualification was required for the reason noted in Section D.

A. Reporting Limits

The laboratory reporting limits for benzene, toluene, ethylbenzene, xylenes and methyl tertiary-butyl ether in water matrix samples met the project-required reporting limits.

B. Holding Times

Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries

Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. Blanks

Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples, with the following exceptions:

1. Equipment blank 1065MW10ARB1065MW10B (193262-008) had a detected level of methyl tertiary-butyl ether at 5.1 ug/L. The results for

methyl tertiary-butyl ether in the associated samples were changed to non-detect (U) if those values were less than five times the blank amount.

2. Equipment blank 1065PZ6BRB1065MW9A (193262-012) had a detected level of methyl tertiary-butyl ether at 4.7 ug/L. The results for methyl tertiary-butyl ether in the associated samples were changed to non-detect (U) if those values were less than five times the blank amount.

See Table 2 of this report for a summary of qualifications due to blank contamination.

E. Laboratory Control Samples

All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate

All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples.

G. Initial Calibration

Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration

Continuing calibration criteria were met for all continuing calibration standards associated with the project samples. Data was reported from two columns. Continuing calibration verification (CCV) standards with percent differences (%Ds) that failed criteria on one column did not require qualification of sample results if results were reported from the column in control. Those failures were not noted in this report.

VI. Organochlorine Pesticides (8081A)

Overall, the data are usable as reported with any added qualifiers. Qualifications were required for the reasons noted in Sections C and I.

A. Reporting Limits

The laboratory reporting limits for pesticides in water matrix samples met the project-required reporting limits.

B. Holding Times

Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries

Surrogate spike recoveries met QC acceptance criteria for all project samples, with the following exception:

1. The percent recoveries for surrogate 2,4,5,6-tetrachloro-meta-xylene (TCMX) failed the 65%-135% project acceptance criteria in two project

samples. The compounds associated with surrogate TCMX: alpha-BHC, beta-BHC, delta-BHC, gamma-BHC, aldrin, heptachlor, heptachlor epoxide and endosulfan I, were qualified as estimated with a low bias (J-/UJ). The following table lists the project samples that were qualified due to these QC failures.

Project Sample Name	Laboratory Sample ID	DCB % Recovery	TCMX % Recovery
1349MW100	193108-008	71%	36%
DUP0301073B	193108-011	65%	33%

See Table 2 of this report for a summary of qualifications due to surrogate percent recovery failure.

D. Blanks

Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples.

E. Laboratory Control Samples

All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate

All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples.

G. Performance Evaluation Mix (PEM) Check Standards

All PEM check standards met the project degradation criteria of 20% for endrin and 4,4'-DDT.

H. Initial Calibration

Initial calibration criteria were met for all calibration standards associated with the project samples. Data was reported from two columns. Calibration standards that had percent relative standard deviations (%RSDs) that failed criteria on one column did not require qualification of sample results if those results were reported from the column in control. Such failures were not noted in this report.

I. Continuing Calibration

Continuing calibration criteria were met for all continuing calibration standards associated with the project samples, with the following exceptions:

1. Data was reported from two columns. Continuing calibration verification (CCV) standards with percent differences (%Ds) that failed criteria on one column did not require qualification of sample results if those

results were reported from the column in control. Such failures were not noted in this report.

2. Qualification was not required for samples with non-detect results associated with high-failing CCV standards. Those failures were not noted in this report.
3. The 3/15/07 at 21:34 water matrix CCV analyzed on instrument GC16, channel B, had endrin ketone with a %D less than the +/-15%D acceptance criteria at -19%. The non-detect results for endrin ketone in the associated samples were qualified as estimated (UJ).

See Table 2 of this report for a summary of samples qualified for continuing calibration verification standard percent difference failure.

VII. Polychlorinated Biphenyls (PCBs) (8082)

Overall, the data are usable as reported with any added qualifiers. Qualification was required for the reason noted in Section C.

A. Reporting Limits

The laboratory reporting limits for PCBs in water matrix samples met the project-required reporting limits.

B. Holding Times

Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries

Surrogate spike recoveries met QC acceptance criteria for all project samples, with the following exception:

1. The percent recoveries for surrogates 2,4,5,6-tetrachloro-meta-xylene (TCMX) and/or decachlorobiphenyl (DCB) failed the 65%-135% project acceptance criteria in several project samples. The compounds associated with surrogate TCMX: PCB-1016, PCB-1221, PCB-1232 and PCB-1242, and the compounds associated with surrogate DCB: PCB-1248, PCB-1254 and PCB-1260, were non-detect and qualified as estimated (UJ). The following table lists the project samples that were qualified due to these QC failures.

Project Sample Name	Laboratory Sample ID	DCB % Recovery	TCMX % Recovery
LF6GW103	193055-004	58%	70%
LF6GW100	193055-005	56%	68%
LF6GW101	193055-006	56%	71%
LF4GW103	193055-009	50%	75%
1349MW100	193108-008	21%	49%
DUP0301073B	193108-011	22%	46%
DAEGW08	193108-013	36%	59%
DAEGW103	193108-022	24%	71%
DAEGW104	193108-023	36%	81%
DAEGW03	193108-025	38%	50%
DAEGW05	193108-026	37%	47%
DUP0302071A	193108-027	26%	77%

See Table 2 of this report for a summary of qualifications due to surrogate percent recovery failures.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples.

G. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples. Data was reported from two columns. Continuing calibration verification (CCV) standards with percent differences (%Ds) that failed criteria on one column did not require qualification of sample results if those results were reported from the column in control. Such failures were not noted in this report.

VIII. Polynuclear Aromatic Hydrocarbons (PAHs) by HPLC (8310)

Overall, the data are usable as reported with any added qualifiers. Qualification was required for the reason noted in Section F.

A. Reporting Limits
The laboratory reporting limits for PAHs in water matrix samples met the project required reporting limits, with the following exception:
1. The laboratory reporting limits did not meet the project required reporting limits listed in Table 2-6.12-1 of the QAPP for anthracene and fluoranthene. The laboratory reported 0.5 ug/L for anthracene and 0.4 ug/L for fluoranthene. The project required reporting limit for these compounds was 0.2 ug/L.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries

Surrogate spike recoveries met QC acceptance criteria for all project samples. Surrogates were reported from two wavelengths. Samples with surrogate recoveries that failed criteria at one wavelength did not require qualification if the surrogate recoveries at the alternate wavelength met criteria. Those failures were not noted in this report.

D. Blanks

Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples.

E. Laboratory Control Samples

All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate

All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples, with the following exceptions:

1. The percent recoveries for benzo(a)pyrene were outside the 65%-135% project acceptance criteria in QC samples DAEGW104 (193108-023) MS/MSD at 48%/46%. The non-detect result for benzo(a)pyrene in the parent sample was qualified as estimated (UJ). (QC Batch 122719)
2. The percent recoveries for fluorene and pyrene were outside the 65%-135% project acceptance criteria in QC samples 193332-003 MS/MSD. The parent sample was from a site unrelated to the project site, and qualification of project samples was not required. (QC Batch 123065)

See Table 2 of this report for a summary of qualifications due to matrix spike percent recovery failure.

G. Initial Calibration

Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration

Continuing calibration criteria were met for all continuing calibration standards associated with the project samples.

IX. Total & Dissolved Metals (6010B/6020A/7470A)

Overall, the data are usable as reported with any added qualifiers. Qualifications were required for the reasons noted in Sections F and G.

A. Reporting Limits

The laboratory reporting limits for metals in water matrix samples met the project required reporting limits listed in Tables 2-5.21-1 and 2-5.26-1 of the QAPP.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Blanks
Target analytes were not observed in any laboratory method blanks or field QC blanks associated with the project samples, with the following exceptions:

1. Method blank QC378700 had a detected level of lead at 5.3 ug/L. The associated samples were non-detect for lead, and qualification was not required.
2. Source blank DW030807A (193277-001) had detected levels of calcium (660 ug/L) and magnesium (2600 ug/L). Project sample association with this blank could not be established, and qualification was not required.

D. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

E. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples, with the following exceptions:

1. The percent recoveries for calcium and magnesium were outside the 75%-125% project acceptance criteria in QC sample 1065PZ7A (193027-002) MS. The amounts of calcium and magnesium present in the parent sample were greater than four times the amounts spiked and qualification was not required. (QC Batch 122867)
2. The percent recoveries for calcium and zinc were outside the 75%-125% project acceptance criteria in QC samples LF01GW06 (193055-021) MS and/or MSD. The samples were diluted ten-fold for calcium and zinc analysis and qualification was not required. (QC Batch 122769)
3. The percent recoveries for sodium were outside the 75%-125% project acceptance criteria in QC samples BHWGW04 (193217-021) MS/MSD. The amount of sodium present in the parent sample was greater than four times the amount spiked and qualification was not required. (QC Batch 122924)
4. The percent recoveries for calcium, magnesium and sodium were outside the 75%-125% project acceptance criteria in QC samples 1349MW01 (193108-007) MS/MSD. The amounts of these metals present in the parent sample were greater than four times the amounts spiked and qualification was not required. (QC Batch 122987)

F. ICP Interference Check Standards
All QC criteria were met for the ICP interference check standards associated with the project samples, with the following exception:

1. The 3/8/07 at 20:37 interference check standard solution A analyzed on instrument MET05 had aluminum with a percent recovery greater than the 80%-120% project acceptance criteria at 122%. The detected results for aluminum in the associated samples were qualified as estimated with a high bias (J+).

See Table 2 of this report for a summary of qualifications due to interference check standard percent recovery failure.

G. ICP Serial Dilution

All QC criteria were met for the ICP serial dilutions associated with the project samples, with the following exceptions:

1. The percent difference (%D) failed the 10% project acceptance criteria for magnesium in the serial dilution of sample LF01GW06 (193055-021) at 13%. The results for magnesium in the associated samples were qualified as estimated (J/UJ). (QC Batch 122769)
2. The %Ds failed the 10% project acceptance criteria for calcium and sodium in the serial dilution of sample 1047MW101 (193108-001) at 15% and 12%, respectively. The results for calcium and sodium in the associated samples were qualified as estimated (J/UJ). (QC Batch 122986)
3. The %Ds failed the 10% project acceptance criteria for cadmium, potassium and zinc in the serial dilution of sample 1349MW01 (193108-007) at 40%, 22% and 56%, respectively. The results for these metals in the associated samples were qualified as estimated (J/UJ). (QC Batch 122987)
4. The %Ds failed the 10% project acceptance criteria for aluminum, antimony, cadmium, lead, magnesium and zinc in the serial dilution of sample 193244-001. The parent sample was from a site unrelated to the project site, and qualification of project samples was not required. (QC Batch 123055)

See Table 2 of this report for a summary of qualifications due to serial dilution percent difference failure.

H. Initial and Continuing Calibrations

All initial and continuing calibration verification standards associated with the project samples met QC acceptance criteria.

X. Various General Chemistry Methods

Overall, the data are usable as reported with any added qualifiers. Qualifications were required for the reasons noted in Sections B, C, D and E.

A. Reporting Limits

The laboratory reporting limits for the general chemistry methods analyzed met the project required reporting limits listed in the QAPP, with the following exception:

1. The results for fluoride in sample 1349MW02 (193055-011), nitrate-nitrogen in sample 1349MW103 (193055-012) and

nitrite-nitrogen in samples LF4GW103 (193055-009), 1349MW104 (193055-013), 1349MW01 (193108-007), 1349MW100 (193108-008), DUP0301073A (193108-010) and DUP0301073B (193108-011) were reported as non-detect at two-fold dilutions and the results for nitrite-nitrogen in samples 1349MW02 (193055-011) and 1349MW103 (193055-012) were reported as non-detect at three-fold dilutions due to the nature of the sample matrices. The reporting limits were raised by the dilution factors.

B. Holding Times

Technical holding time criteria were met for all project samples, with the following exception:

1. Samples DAEGW103 (193108-022), DAEGW104 (193108-023) and DUP0302071A (193108-027) were analyzed one to two days past the 48-hour analysis holding time. Sample DAEGW102 (193262-019) was analyzed less than one hour past the 48-hour analysis holding time for methylene blue active substances (MBAS). The sample results were non-detect and qualified as estimated (UJ).

See Table 2 of this report for a summary of qualifications due to missed analysis holding times.

C. Blanks

Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples, with the following exceptions:

1. Equipment blank BHWGW05RBBHWGW01 (193217-023) had a detected level of nitrate-nitrogen at 0.21 mg/L. The results for nitrate-nitrogen in the associated samples were changed to non-detect (U) if those values were less than five times the blank amount.
2. Equipment blank 1065MW10ARB1065MW10B (193262-008) had a detected level of total dissolved solids at 16 mg/L. The associated samples had total dissolved solids values greater than five times the blank amount, and qualification was not required.
3. Equipment blank 1065PZ6BRB1065MW9A (193262-012) had detected levels of chloride (0.4 mg/L) and total dissolved solids (100 mg/L). The associated samples were either non-detect, or had chloride values greater than five times the blank amount, and qualification was not required. Qualification was not required for the physical property parameter total dissolved solids.
4. Source blank DW030807B (193262-020) had a detected level of total dissolved solids at 22 mg/L. Qualification was not required for the physical property parameter total dissolved solids.
5. Source blank DW030807A (193277-001) had a detected level of total dissolved solids at 22 mg/L. Project sample association with this source blank could not be established, and qualification was not required.

See Table 2 of this report for a summary of qualifications due to blank contamination.

D. Laboratory Control Samples

All QC criteria were met for the laboratory control samples associated with the project samples, with the following exceptions:

1. The percent recovery for total dissolved solids was outside the 80%-120% project acceptance criteria in QC sample QC378283 LCSD at 122%. The detected results for total dissolved solids in the associated samples were qualified as estimated with a high bias (J+). (QC Batch 122886)
2. The percent recoveries for total dissolved solids were outside the 80%-120% project acceptance criteria in QC samples QC378286 LCS and QC378287 LCSD at 124% and 126%, respectively. The detected results for total dissolved solids in the associated samples were qualified as estimated with a high bias (J+). (QC Batch 122887)
3. The percent recovery for fluoride was outside the 90%-110% project acceptance criteria in QC sample QC379159 LCS at 113%. The associated samples were non-detect for fluoride, and qualification was not required. (QC Batch 123095)

See Table 2 of this report for a summary of qualifications due to laboratory control sample percent recovery failure.

E. Matrix Spike/Matrix Spike Duplicate

All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples, with the following exceptions:

1. The percent recoveries for sulfide were outside the 75%-125% project acceptance criteria in QC samples 1065PZ7A (193027-002) MS/MSD at 0%/0%. The percent recoveries were less than 30%, which required rejection of non-detect results. The results for sulfide in the associated samples were non-detect and qualified as rejected (R). (QC Batch 122733)
2. The percent recoveries for sulfide were outside the 75%-125% project acceptance criteria in QC samples 1047MW101 (193108-001) MS/MSD at 62%/62%. The results for sulfide in the associated samples were non-detect and qualified as estimated (UJ). (QC Batch 122845)
3. The percent recoveries for sulfide were outside the 75%-125% project acceptance criteria in QC samples 1065PZ3A (193108-017) MS/MSD at 68%/68%. The results for sulfide in the associated samples were non-detect and qualified as estimated (UJ). (QC Batch 122845)
4. The percent recoveries for sulfide were outside the 75%-125% project acceptance criteria in QC samples 193274-009 MS/MSD at 29%/29%. The parent sample was from a site unrelated to the project site, and qualification of project samples was not required. (QC Batch 123080)

See Table 2 of this report for a summary of qualifications due to matrix spike percent recovery failure.

F. Laboratory Duplicate Samples
All QC criteria were met for the laboratory duplicate samples associated with the project samples, with the following exception:
1. The relative percent difference (RPD) for total dissolved solids was outside the 20% project acceptance criteria in the duplicate of sample 193219-001. The parent sample was from a site unrelated to the project site, and qualification of project samples was not required. (QC Batch 123140)

G. Initial and Continuing Calibrations
All initial and continuing calibration standards associated with the project samples met QC acceptance criteria.

The following paragraphs highlight the essential findings of the data validation effort of the QC split samples:

XI. Volatile Organic Compounds (VOCs) by GC/MS (8260B)

Overall, the data are usable as reported with any added qualifiers. Qualifications were required for the reasons noted in Sections H and I.

A. Reporting Limits
The laboratory reporting limits for VOCs in water matrix samples met the project required reporting limits, with the following exception:
1. The laboratory reporting limits did not meet the project required reporting limits listed in Table 2-6.8-1 of the QAPP for bromoform, bromomethane, chloroethane, and chloromethane. The laboratory reported 1.0 ug/L for these compounds. The project required reporting limit was 0.5 ug/L.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate

All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples.

G. GC/MS Tunes

All QC criteria were met for the GC/MS tunes associated with the project samples.

H. Initial Calibration

Initial calibration criteria were met for all calibration standards associated with the project samples, with the following exception:

1. The 2/26/07 water matrix initial calibration analyzed on instrument MS18 had five compounds with average relative response factors (RRFs) less than the 0.05 acceptance criteria: vinyl acetate (0.028), acetone (0.028), 2-butanone (0.009), 2-hexanone (0.029) and 4-methyl-2-pentanone (0.037). The results for these compounds in the associated samples were non-detect and qualified as rejected (R).

See Table 2 of this report for a summary of qualifications due to initial calibration minimum average relative response factor failure.

I. Continuing Calibration

Continuing calibration criteria were met for all continuing calibration standards associated with the project samples, with the following exceptions:

1. The 3/13/07 at 9:02 water matrix continuing calibration verification standard (CCV) analyzed on instrument MS18 had five compounds with relative response factors (RRFs) less than the 0.05 acceptance criteria: vinyl acetate (0.030), acetone (0.029), 2-butanone (0.011), 2-hexanone (0.028) and 4-methyl-2-pentanone (0.041). The results for these compounds in the associated samples were non-detect and qualified as rejected (R).
2. The same CCV (3/13/07 at 9:02) had bromoform with a percent difference (%D) less than the +/-25%D acceptance criteria at -26%. The results for bromoform in the associated samples were non-detect and qualified as estimated (UJ).
3. The 3/13/07 at 21:02 water matrix CCV analyzed on instrument MS18 had four compounds with RRFs less than the 0.05 acceptance criteria: vinyl acetate (0.018), acetone (0.032), 2-butanone (0.011) and 2-hexanone (0.030). The results for these compounds in the associated samples were non-detect and qualified as rejected (R).
4. The same CCV (3/13/07 at 21:02) had two compounds with %Ds less than the +/-25%D acceptance criteria: vinyl acetate (-35%) and bromoform (-26%). The results for bromoform in the associated samples were non-detect and qualified as estimated (UJ). The results for vinyl acetate in the associated samples were previously rejected due to minimum RRF failure, and further qualification was not required.

See Table 2 of this report for a summary of qualifications due to minimum relative response factor and continuing calibration percent difference failures.

J. Internal Standards
Internal standard areas and retention times met QC acceptance criteria for all project samples.

XII. N-Nitrosodimethylamine (NDMA) GC/MS (521)

Overall, the data are usable as reported. Qualification was not required.

A. Reporting Limits
A project required reporting limit for NDMA in water matrix samples was not listed in the QAPP.

B. Holding Times
Technical holding time criteria was met for the project sample.

C. Labeled Compound Recoveries
Labeled compound recoveries met QC acceptance criteria for the project sample.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project sample.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project sample.

F. Matrix Spike/Matrix Spike Duplicate
A matrix spike and matrix spike duplicate were not analyzed with the project sample for this analysis.

G. GC/MS Tunes
A GC/MS tune was performed prior to instrument calibration and project sample analysis. The analytical method does not specify criteria for the tune other than following the instrument manufacturer's recommendations.

H. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project sample.

I. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project sample.

J. Internal Standards
Internal standard areas and retention times met QC acceptance criteria for the project sample.

XIII. Total Petroleum Hydrocarbons (TPH) - Gasoline Range (8015B)

Overall, the data are usable as reported. Qualification was not required.

A. Reporting Limits
The laboratory reporting limit for TPH-gasoline in water matrix samples met the project-required reporting limit.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples.

G. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples.

XIV. Total Petroleum Hydrocarbons (TPH) – Diesel/Fuel Oil Range (8015B)

Overall, the data are usable as reported. Qualification was not required.

A. Reporting Limits
The laboratory reporting limits for TPH-diesel and TPH-fuel oil in water matrix samples met the project-required reporting limits.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples.

G. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples.

XV. Organochlorine Pesticides (8081A)

Overall, the data are usable as reported with any added qualifiers. Qualifications were required for the reasons noted in Sections C and E.

A. Reporting Limits
The laboratory reporting limits for pesticides in water matrix samples met the project-required reporting limits.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples, with the following exception:

1. The percent recoveries for surrogates 2,4,5,6-tetrachloro-meta-xylene (TCMX) and decachlorobiphenyl (DCB) failed the 65%-135% project acceptance criteria in project sample DAEGW104CL (K0701703-001) at 38% and 51%, respectively. All pesticides in the sample were non-detect and qualified as estimated (UJ).

See Table 2 of this report for a summary of qualifications due to surrogate percent recovery failures.

D. Blanks

Target analytes were not observed in any laboratory method blanks associated with the project samples.

E. Laboratory Control Samples

All QC criteria were met for the laboratory control samples associated with the project samples, with the following exceptions:

1. The percent recoveries for aldrin were outside the 65%-135% project acceptance criteria in QC samples KWG0703392-1 LCS and KWG0703392-2 LCSD at 60% and 52%, respectively. The non-detected results for aldrin in the associated samples were qualified as estimated (UJ). (QC batch KWG0703392)
2. The percent recoveries for alpha-BHC, heptachlor, aldrin and endrin aldehyde were outside the 65%-135% project acceptance criteria in QC samples KWG0703478-1 LCS and/or KWG0703478-2 LCSD at 61%, 49%, 60%/39% and 59%, respectively. The relative percent difference (RPD) for aldrin was outside the 35% acceptance criteria in the LCS/LCSD pair at 43%. The non-detected results for alpha-BHC, heptachlor and endrin aldehyde in the associated samples were qualified as estimated (UJ) for percent recovery failure. The non-detected results for aldrin in the associated samples were qualified as estimated (UJ) for percent recovery and RPD failure. (QC batch KWG0703478)

See Table 2 of this report for a summary of qualifications due to laboratory control sample percent recovery and relative percent difference failures.

F. Matrix Spike/Matrix Spike Duplicate

A matrix spike and matrix spike duplicate were not analyzed with the project samples for this analysis.

G. Performance Evaluation Mix (PEM) Check Standards

All PEM check standards met the project degradation criteria of 20% for endrin and 4,4'-DDT.

H. Initial Calibration

Initial calibration criteria were met for all calibration standards associated with the project samples.

I. Continuing Calibration

Continuing calibration criteria were met for all continuing calibration standards associated with the project samples. Qualification was not required for samples with non-detect results associated with high-failing continuing calibration verification (CCV) standards. Those failures were not noted in this report.

XVI. Polychlorinated Biphenyls (PCBs) (8082)

Overall, the data are usable as reported with any added qualifiers. Qualification was required for the reason noted in Section C.

A. Reporting Limits

The laboratory reporting limits for PCBs in water matrix samples met the project-required reporting limits.

B. Holding Times

Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries

Surrogate spike recoveries met QC acceptance criteria for all project samples, with the following exception:

1. The percent recovery for surrogate decachlorobiphenyl (DCB) failed the 65%-135% project acceptance criteria in project sample DAEGW104CL (K0701703-001) at 56%. Because the laboratory did not spike the sample with a secondary surrogate, all PCB compounds required qualification. All PCBs in the sample were non-detect and qualified as estimated (UJ).

See Table 2 of this report for a summary of qualifications due to surrogate percent recovery failures.

D. Blanks

Target analytes were not observed in any laboratory method blanks associated with the project samples.

E. Laboratory Control Samples

All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate

A matrix spike and matrix spike duplicate were not analyzed with the project samples for this analysis.

G. Initial Calibration

Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration

Continuing calibration criteria were met for all continuing calibration standards associated with the project samples.

XVII. Polynuclear Aromatic Hydrocarbons (PAHs) by HPLC (8310)

Overall, the data are usable as reported. Qualification was not required.

A. Reporting Limits
The laboratory reporting limits for PAHs in water matrix samples met the project-required reporting limits.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples, with the following exception:

1. The percent recovery for dibenz(a,h)anthracene was outside the 65%-135% project acceptance criteria in QC sample 1349MW01CL (K0701647-002) MS at 174%. The result for dibenz(a,h)anthracene in the sample was non-detect, and qualification was not required. (QC Batch KWG0703403)

G. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples. Qualification was not required for samples with non-detect results associated with high-failing continuing calibration verification (CCV) standards. Those failures were not noted in this report.

XVIII. Dissolved Metals (6010B/6020/7470A/7740)

Overall, the data are usable as reported. Qualification was not required.

A. Reporting Limits

The laboratory reporting limits for metals in water matrix samples met the project-required reporting limits.

B. Holding Times

Technical holding time criteria were met for all project samples.

C. Blanks

Target analytes were not observed in any laboratory method blanks associated with the project samples.

D. Laboratory Control Samples

All QC criteria were met for the laboratory control samples associated with the project samples.

E. Matrix Spike/Matrix Spike Duplicate

All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples, with the following exception:

1. The percent recovery for selenium was outside the 75%-125% project acceptance criteria in QC sample LF6GW105CL (K0701568-001) MS at 131%. The associated project samples were non-detect for selenium and qualification was not required. (QC Batch K0701568)

F. Laboratory Duplicate Samples

All QC criteria were met for the laboratory duplicate samples associated with the project samples.

G. ICP Interference Check Standards

All QC criteria were met for the ICP interference check standards associated with the project samples, with the following exception:

1. The 3/12/07 at 9:59 interference check standard solution AB analyzed on instrument PQ-S had nickel with a percent recovery greater than the 80%-120% project acceptance criteria at 130%. The levels of interferent elements present in the project samples were less than those in the interference check standard, and qualification was not required.

H. ICP Serial Dilution

All QC criteria were met for the ICP serial dilutions associated with the project samples, with the following exception:

1. The percent differences (%Ds) failed the 10% project acceptance criteria for arsenic and nickel in the serial dilution of sample K0701566-006. The parent sample was from a site unrelated to the project site, and qualification of project samples was not required. (QC Batch K0701568)

I. Initial and Continuing Calibrations
All initial and continuing calibration standards associated with the project samples met QC acceptance criteria.

XIX. Various General Chemistry Methods

Overall, the data are usable as reported with any added qualifiers. Qualifications were required for the reasons noted in Sections B and E.

A. Reporting Limits
The laboratory reporting limits for the general chemistry methods analyzed met the project required reporting limits listed in the QAPP, with the following exception:
1. The laboratory reporting limit for fluoride was 0.2 mg/L, the project required reporting limit for this analyte was 0.1 mg/L. The laboratory reporting limit for nitrate-nitrogen and nitrite-nitrogen was 0.1 mg/L, the project required reporting limit for these analytes was 0.05 mg/L. The laboratory reporting limit for methylene blue active substances (MBAS) was 0.25 mg/L, the project required reporting limit for this analyte was 0.025 mg/L.

B. Holding Times
Technical holding time criteria were met for all project samples, with the following exception:
1. Samples LF6GW105CL (K0701568-001), 231GW09CL (K0701568-002), 1047MW101CL (K0701647-001), 1349MW01CL (K0701647-002) and DAEGW104CL (K0701703-001) were analyzed six to seven days past the seven-day analysis holding time for total dissolved solids. The detected sample results were qualified as estimated with a low bias (J-).

See Table 2 of this report for a summary of qualifications due to missed analysis holding times.

C. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples.

D. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

E. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples, with the following exceptions:
1. The percent recoveries for sulfide were outside the 75%-125% project acceptance criteria in QC samples 231GW09CL (K0701568-002) MS/MSD at 48%/48%, respectively. The results for sulfide in the

associated samples were non-detect and qualified as estimated (UJ). (QC Batch K0701568)

2. The percent recoveries for sulfide were outside the 75%-125% project acceptance criteria in QC samples 1047MW101CL (K0701647-001) MS/MSD at 34%/34%, respectively. The results for sulfide in the associated samples were non-detect and qualified as estimated (UJ). (QC Batch K0701647)

See Table 2 of this report for a summary of qualifications due to matrix spike percent recovery failure.

F. Laboratory Duplicate Samples

All QC criteria were met for the laboratory duplicate samples associated with the project samples.

G. Initial and Continuing Calibrations

All initial and continuing calibration standards associated with the project samples met QC acceptance criteria. Qualification was not required for samples with non-detect results that were associated with high-failing continuing calibration verification (CCV) standards. Those failures were not noted in this report.

The following paragraphs highlight the essential findings of the field duplicate samples:

Field duplicate precision was evaluated by calculating the relative percent difference (RPD) between detected results in the original sample and its associated duplicate. The control limit used for field duplicates was a relative percent difference less than or equal to 50 percent, or the absolute difference of the two results must be less than the reporting limit for those analytes that were at or near the detection limit. Fifteen samples were collected in duplicate for the First Quarter 2007 sampling event.

Project Sample Primary ID	Laboratory Sample ID	Project Sample Duplicate ID	Laboratory Sample ID
LF6GW105	193027-001	DUP0227072A	193027-004
1065PZ7A	193027-002	DUP0227072B	193027-005
231GW09	193027-003	DUP0227072C	193027-006
1065PZ3B	193055-001	DUP0228072A	193055-007
LF01GW04	193055-019	DUP0228071A	193055-026
1047MW101	193108-001	DUP0301072A	193108-006
1349MW01	193108-007	DUP0301073A	193108-010
1349MW100	193108-008	DUP0301073B	193108-011
DAEGW104	193108-023	DUP0302071A	193108-027
979GW115	193217-004	DUP0306071A	193217-007
979GW116	193217-005	DUP0306071B	193217-008
NKGW02	193217-011	DUP0306071C	193217-012
BHWGW04	193217-021	DUP0306073A	193217-024
1221GW104	193262-001	DUP0307073B	193262-006
LF08GW04	193262-002	DUP0307073A	193262-007

The attached Table 3 summarizes the field duplicate sample results. The detected results of the original samples and the associated duplicate samples were compared and the calculated RPDs reported. All RPDs met the 50 percent precision control limit requirement, with the following exceptions:

1. In QC split duplicates 1065PZ7A and DUP0227072B, the relative percent difference (RPD) between the detected results failed the 50% acceptance criteria for methyl tertiary-butyl ether at 124%.
2. In QC split duplicates LF01GW04 and DUP0228071A, the absolute difference between the results was greater than the reporting limit for dissolved iron. The original result was non-detect at 100 ug/L and the duplicate result was 390 ug/L.
3. In QC split duplicates 1047MW101 and DUP0301072A, the absolute difference between the results was greater than the reporting limit for total dissolved solids. The original result was non-detect at 10 mg/L and the duplicate result was 88 mg/L.
4. In QC split duplicates 1349MW01 and DUP0301073A, the RPD between the detected results failed the 50% acceptance criteria for dissolved copper at 155%.
5. In QC split duplicates 1349MW100 and DUP0301073B, the RPD between the detected results failed the 50% acceptance criteria for TPH-gasoline (64%), anthracene (62%), fluoranthene (57%), pyrene (76%) and chrysene (67%). The absolute difference between the results was greater than the reporting limit for TPH-fuel oil, gamma-chlordane, acenaphthene and benzo(a)anthracene. The original result for TPH-fuel oil was non-detect at 300 ug/L and the duplicate result was 670 ug/L. The original result for gamma-chlordane was non-detect at 0.05 ug/L and the duplicate result was 0.5 ug/L. The original result for acenaphthene was non-detect at 0.97 ug/L and the duplicate result was 3.8 ug/L. The original result for benzo(a)anthracene was 1.9 ug/L and the duplicate result was non-detect at 0.1 ug/L.
6. In QC split duplicates NKGW02 and DUP0306071C, the absolute difference between the results was greater than the reporting limit for dissolved copper. The original result was non-detect at 1.0 ug/L and the duplicate result was 2.4 ug/L.
7. In QC split duplicates BHWGW04 and DUP0306073A, the RPD between the detected results failed the 50% acceptance criteria for dissolved copper at -146% and the absolute difference between the results was greater than the reporting limit for dissolved antimony. The original result was 2.2 ug/L and the duplicate result was non-detect at 1.0 ug/L.

The analysis of field duplicate samples is a measure of both field and analytical precision. The imprecision in the results in the field duplicate pairs listed above may be due to the sample matrix, sampling or laboratory technique, or method defects. With the exceptions noted above, the results between the field duplicate pairs matched well. Since the effect on the quality of the data is not known, data is not qualified for field duplicate failure.

The following paragraphs highlight the essential findings of the QC split duplicate samples:

Laboratory analytical precision was evaluated by calculating the relative percent differences (RPDs) between detected results in the samples and the associated QC split

duplicates, which were sent to another laboratory for analysis. The QC split samples were sent to Columbia Analytical Services in Kelso, WA. The control limit used for QC split duplicates was a relative percent difference less than or equal to 50 percent, or the absolute difference of the two results must be less than the reporting limit for those analytes that were at or near the detection limit. Seven samples were collected in duplicate for the First Quarter 2007 sampling event.

Project Sample Primary ID	Laboratory Sample ID	Project Sample Split Duplicate ID	Laboratory Sample ID
LF6GW105	193027-001	LF6GW105CL	K0701586-001
231GW09	193027-003	231GW09CL	K0701586-002
1047MW101	193108-001	1047MW101CL	K0701647-001
1349MW01	193108-007	1349MW01CL	K0701647-002
DAEGW104	193108-023	DAEGW104CL	K0701703-001
979GW115	193217-004	979GW115CL	K0701816-001
NKGW02	193217-011	NKGW02CL	K0701816-002

The attached Table 4 summarizes the QC split duplicate samples. The detected results were compared and the calculated RPDs reported. All RPDs met the 50 percent precision control limit requirement, with the following exceptions:

1. In QC split duplicates 1047MW101 and 1047MW101CL, the absolute difference between the results was greater than the reporting limit for total dissolved solids. The original result was non-detect at 10 mg/L and the duplicate result was 52 mg/L.
2. In QC split duplicates 1349MW01 and 1349MW01CL, the relative percent difference (RPD) between the detected results failed the 50% acceptance criteria for copper (155%) and zinc (-186%), and the absolute difference between the results was greater than the reporting limit for fluoride. The original fluoride result was non-detect at 0.1 mg/L and the duplicate result was 0.3 mg/L.

Data is not qualified due to RPD failure of QC split samples because the effect on the quality of the data is not known.

The following paragraphs highlight the essential findings of the field QC blank samples:

Eight trip blanks, six equipment blanks, one field blank and two source blanks were analyzed with the project samples. All field QC blanks were non-detect for all methods analyzed, with the following exceptions:

1. Trip blank TB0228073A (193055-015) had a detected level of chloroform at 5.3 ug/L. The levels of chloroform in the associated project samples were non-detect, and qualification was not required.
2. Trip blank TB0306072A (193217-013) had a detected level of chloroform at 0.5 ug/L. The levels of chloroform in the associated project samples were non-detect, and qualification was not required.
3. Source blank DW030807B (193262-020) had a detected level of benzene at 0.07 ug/L. The levels of benzene in the associated project samples were non-detect, and qualification was not required.

4. Source blank DW030807B (193262-020) had a detected level of NDMA at 0.0021 ug/L. The results for NDMA in the associated samples were changed to non-detect (U) if those values were less than five times the blank amount.
5. Source blank DW030807A (193277-001) had a detected level of NDMA at 0.0113 ug/L. Project sample association with this blank could not be established, and qualification was not required.
6. Equipment blank 1065MW10ARB1065MW10B (193262-008) had a detected level of methyl tertiary-butyl ether at 5.1 ug/L. The results for methyl tertiary-butyl ether in the associated samples were changed to non-detect (U) if those values were less than five times the blank amount.
7. Equipment blank 1065PZ6BRB1065MW9A (193262-012) had a detected level of methyl tertiary-butyl ether at 4.7 ug/L. The results for methyl tertiary-butyl ether in the associated samples were changed to non-detect (U) if those values were less than five times the blank amount.
8. Source blank DW030807A (193277-001) had detected levels of calcium (660 ug/L) and magnesium (2600 ug/L). Project sample association with this blank could not be established, and qualification was not required.
9. Equipment blank BHWGW05RBBHWGW01 (193217-023) had a detected level of nitrate-nitrogen at 0.21 mg/L. The results for nitrate-nitrogen in the associated samples were changed to non-detect (U) if those values were less than five times the blank amount.
10. Equipment blank 1065MW10ARB1065MW10B (193262-008) had a detected level of total dissolved solids at 16 mg/L. The associated samples had total dissolved solids values greater than five times the blank amount, and qualification was not required.
11. Equipment blank 1065PZ6BRB1065MW9A (193262-012) had detected levels of chloride (0.4 mg/L) and total dissolved solids (100 mg/L). The associated samples had chloride values greater than five times the blank amount or non-detect, and qualification was not required. Qualification was not required for the physical property parameter total dissolved solids.
12. Source blank DW030807B (193262-020) had a detected level of total dissolved solids at 22 mg/L. Qualification was not required for the physical property parameter total dissolved solids.
13. Source blank DW030807A (193277-001) had a detected level of total dissolved solids at 22 mg/L. Project sample association with this source blank could not be established, and qualification was not required.

SUMMARY

The attached Table 1 lists the samples and analyses included in the data validation effort. The attached Table 2 summarizes the data qualifications for the project samples included in the data packages.

USABILITY

The quality control criteria were reviewed, and other than those discussed above, all criteria were met and the data are considered acceptable. Rejected sample results (R) are not usable for any purpose. Estimated sample results (J/UJ) are usable only for limited purposes. Based upon the cursory level data validation, all other results are considered valid and usable for all purposes.

VALIDATION QUALIFIERS IDENTIFICATION

The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review," October, 1999.

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. *A minus sign (-) indicates the numerical value has a low bias. A plus sign (+) indicates the numerical value has a high bias.*

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Table 1
Sample Summary
First Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Site Sample ID	Laboratory Sample ID	Date Sampled	Analyses	Sample Type
LF6GW105	193027-001	27-Feb-07	Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water (1)
1065PZ7A	193027-002	27-Feb-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water (2)
231GW09	193027-003	27-Feb-07	Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water (3)
DUP0227072A	193027-004	27-Feb-07	Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	FD (1)
DUP0227072B	193027-005	27-Feb-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	FD (2)
DUP0227072C	193027-006	27-Feb-07	Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	FD (3)
LF10GW03	193027-007	27-Feb-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3)	Water
BB3GW100	193027-008	27-Feb-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3)	Water
FM14EX07GW101	193027-009	27-Feb-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), PAHs (8310)	Water
FM14EX07GW102	193027-010	27-Feb-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), PAHs (8310)	Water
BB1PZ100	193027-011	27-Feb-07	TPH-Diesel/FO (8015B), Pesticides (8081A), PAHs (8310), Total & Dissolved Metals (6020, 7470A), General Chemistry Parameters (2, 3)	Water
BB1PZ101	193027-012	27-Feb-07	TPH-Diesel/FO (8015B), Pesticides (8081A), PAHs (8310), Total & Dissolved Metals (6020, 7470A), General Chemistry Parameters (2, 3)	Water
LF10SP01	193027-013	27-Feb-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Total & Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3)	Water
LF10GW01	193027-014	27-Feb-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3)	Water
LF10GW02	193027-015	27-Feb-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3)	Water
TB0227071A	193027-016	27-Feb-07	Volatile Organic Compounds (8260B)	Trip Blank
1065PZ3B	193055-001	28-Feb-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water (5)
LF6GW104	193055-002	28-Feb-07	TPH-Diesel/FO (8015B), PAHs (8310), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
LF6GW106	193055-003	28-Feb-07	TPH-Diesel/FO (8015B), PAHs (8310), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
LF6GW103	193055-004	28-Feb-07	TPH-Gasoline (8015B), TPH-Diesel (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
LF6GW100	193055-005	28-Feb-07	TPH-Gasoline (8015B), TPH-Diesel (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3, 12)	Water
LF6GW101	193055-006	28-Feb-07	TPH-Gasoline (8015B), TPH-Diesel (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3, 12)	Water

Table 1
Sample Summary
First Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Site Sample ID	Laboratory Sample ID	Date Sampled	Analyses	Sample Type
DUP0228072A	193055-007	28-Feb-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	FD (5)
LF10GW100	193055-008	28-Feb-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3)	Water
LF4GW103	193055-009	28-Feb-07	PCBs (8082), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3)	Water
LF4GW104	193055-010	28-Feb-07	PCBs (8082), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3)	Water
1349MW02	193055-011	28-Feb-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3)	Water
1349MW103	193055-012	28-Feb-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PAHs (8310), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3)	Water
1349MW104	193055-013	28-Feb-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PAHs (8310), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3)	Water
1349MW105	193055-014	28-Feb-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PAHs (8310), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3)	Water
TB0228073A	193055-015	28-Feb-07	Volatile Organic Compounds (8260B)	Trip Blank
LF01GW01	193055-016	28-Feb-07	Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 8)	Water
LF01GW02	193055-017	28-Feb-07	Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 8)	Water
LF01GW03	193055-018	28-Feb-07	Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 8)	Water
LF01GW04	193055-019	28-Feb-07	Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 8)	Water (4)
LF01GW05	193055-020	28-Feb-07	Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 8)	Water
LF01GW06	193055-021	28-Feb-07	Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 8)	Water
LF01GW07	193055-022	28-Feb-07	Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 8)	Water
EPSP01	193055-023	28-Feb-07	Total & Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 8)	Water
LF02GW01	193055-024	28-Feb-07	Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 8)	Water
LF02GW02	193055-025	28-Feb-07	Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 8)	Water
DUP0228071A	193055-026	28-Feb-07	Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 8)	FD (4)
1047MW101	193108-001	1-Mar-07	VOCs (8260B), TPH-Gasoline/Stoddard Solvent (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water (6)
1065PZ4B	193108-002	1-Mar-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
1065PZ7B	193108-003	1-Mar-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
1065PZ5AR	193108-004	1-Mar-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
1065PZ5B	193108-005	1-Mar-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water

Table 1
Sample Summary
First Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Site Sample ID	Laboratory Sample ID	Date Sampled	Analyses	Sample Type
DUP0301072A	193108-006	1-Mar-07	VOCs (8260B), TPH-Gasoline/Stoddard Solvent (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	FD (6)
1349MW01	193108-007	1-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PAHs (8310), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3)	Water (7)
1349MW100	193108-008	1-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3)	Water (8)
DAEGW06	193108-009	1-Mar-07	VOCs (8260B), TPH-Diesel/FO (8015B), PAHs (8310), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3)	Water
DUP0301073A	193108-010	1-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PAHs (8310), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3)	FD (7)
DUP0301073B	193108-011	1-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3)	FD (8)
1213GW101	193108-012	2-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), PAHs (8310), Dissolved Metals (6020), General Chemistry Parameters (2, 3)	Water
DAEGW08	193108-013	1-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3)	Water
LF02GW04	193108-014	1-Mar-07	Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 8)	Water
1065PZ1A	193108-015	1-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
1065PZ2A	193108-016	1-Mar-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
1065PZ3A	193108-017	1-Mar-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
1065PZ4A	193108-018	1-Mar-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
1065MW101	193108-019	1-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
1065MW102	193108-020	1-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
TB0301073A	193108-021	1-Mar-07	Volatile Organic Compounds (8260B)	Trip Blank
DAEGW103	193108-022	1-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3, 7, 9)	Water
DAEGW104	193108-023	2-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3, 7, 9)	Water (9)

Table 1
Sample Summary
First Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Site Sample ID	Laboratory Sample ID	Date Sampled	Analyses	Sample Type
DAEGW101	193108-024	2-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), PAHs (8310), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1)	Water
DAEGW03	193108-025	2-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3)	Water
DAEGW05	193108-026	2-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3)	Water
DUP0302071A	193108-027	2-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3, 7, 9)	FD (9)
514AGW101	193137-001	2-Mar-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), PAHs (8310)	Water
937GW37	193137-002	2-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
937GW35	193137-003	2-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
937GW32R	193137-004	2-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
NKGW04	193137-005	2-Mar-07	VOCs (8260B), NDMA (1625C), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 8)	Water
FB0302071A	193137-006	2-Mar-07	N-Nitrosodimethylamine (1625C)	Field Blank
937GW38	193174-001	5-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
937GW06	193174-002	5-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
937GW39	193174-003	5-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
937GW42	193174-004	5-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
937GW108	193174-005	5-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
937GW12	193174-006	5-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
937GW103	193174-007	5-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
937GW102	193174-008	5-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
937GW103RB937GW102	193174-009	5-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Equipment Blank
937GW104	193174-010	5-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
979GW111R	193174-011	5-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
979GW117	193174-012	5-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
937GW105	193174-013	5-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
937GW106	193174-014	5-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
937GW107	193174-015	5-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
979GW109	193174-016	5-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
979GW110	193174-017	5-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
979GW109RB979GW110	193174-018	5-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Equipment Blank
979GW112	193174-019	5-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
TB0305072A	193174-020	5-Mar-07	Volatile Organic Compounds (8260B)	Trip Blank
979GW113	193217-001	6-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water

Table 1
Sample Summary
First Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Site Sample ID	Laboratory Sample ID	Date Sampled	Analyses	Sample Type
979GW113RB979GW114	193217-002	6-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Equipment Blank
979GW114	193217-003	6-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
979GW115	193217-004	6-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water (10)
979GW116	193217-005	6-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water (11)
950GW108	193217-006	6-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
DUP0306071A	193217-007	6-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	FD (10)
DUP0306071B	193217-008	6-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	FD (11)
937GW101	193217-009	6-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
1065PZ2B	193217-010	6-Mar-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
NKGW02	193217-011	6-Mar-07	VOCs (8260B), NDMA (1625C), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 8)	Water (12)
DUP0306071C	193217-012	6-Mar-07	VOCs (8260B), NDMA (1625C), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 8)	FD (12)
TB0306072A	193217-013	6-Mar-07	Volatile Organic Compounds (8260B)	Trip Blank
LF08GW01	193217-014	6-Mar-07	VOCs (8260B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3, 8, 12)	Water
LF08GW02B	193217-015	6-Mar-07	VOCs (8260B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3, 8, 12)	Water
LF08GW03	193217-016	6-Mar-07	VOCs (8260B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3, 8, 12)	Water
LF08GW06	193217-017	6-Mar-07	VOCs (8260B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3, 8, 12)	Water
HWGW100	193217-018	6-Mar-07	VOCs (8260B), Dissolved Metals (6020), General Chemistry Parameters (2, 3)	Water
HWGW101	193217-019	6-Mar-07	VOCs (8260B), Dissolved Metals (6020), General Chemistry Parameters (2, 3)	Water
BHWGW01	193217-020	6-Mar-07	VOCs (8260B), Dissolved Metals (6020), General Chemistry Parameters (2, 3)	Water
BHWGW04	193217-021	6-Mar-07	VOCs (8260B), Dissolved Metals (6020), General Chemistry Parameters (2, 3)	Water (13)
BHWGW05	193217-022	6-Mar-07	VOCs (8260B), Dissolved Metals (6020), General Chemistry Parameters (2, 3)	Water
BHWGW05RBBHWGW01	193217-023	6-Mar-07	VOCs (8260B), Dissolved Metals (6020), General Chemistry Parameters (2, 3)	Equipment Blank
DUP0306073A	193217-024	6-Mar-07	VOCs (8260B), Dissolved Metals (6020), General Chemistry Parameters (2, 3)	FD (13)
1221GW104	193262-001	7-Mar-07	Dissolved Metals (6020), General Chemistry Parameters (2, 3)	Water (15)
LF08GW04	193262-002	7-Mar-07	VOCs (8260B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3, 8, 12)	Water (14)
DAEGW04	193262-003	7-Mar-07	VOCs (8260B), TPH-Diesel/FO (8015B), PAHs (8310), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3)	Water
1065MW10A	193262-004	7-Mar-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water

Table 1
Sample Summary
First Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Site Sample ID	Laboratory Sample ID	Date Sampled	Analyses	Sample Type
1065MW10B	193262-005	7-Mar-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
DUP0307073B	193262-006	7-Mar-07	Dissolved Metals (6020), General Chemistry Parameters (2, 3)	FD (15)
DUP0307073A	193262-007	7-Mar-07	VOCs (8260B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3, 8, 12)	FD (14)
1065MW10ARB1065MW10B	193262-008	7-Mar-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Equipment Blank
TB0307071A	193262-009	7-Mar-07	Volatile Organic Compounds (8260B)	Trip Blank
1065PZ1B	193262-010	7-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
1065PZ6B	193262-011	7-Mar-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
1065PZ6BRB1065MW9A	193262-012	7-Mar-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Equipment Blank
1065MW9A	193262-013	7-Mar-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
1065MW9B	193262-014	7-Mar-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
1065MW11A	193262-015	7-Mar-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
1065MW11B	193262-016	7-Mar-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
NKGW01	193262-017	7-Mar-07	VOCs (8260B), NDMA (1625C), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 8)	Water
NKGW05	193262-018	7-Mar-07	VOCs (8260B), NDMA (1625C), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 8)	Water
DAEGW102	193262-019	7-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Total & Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3, 7, 9)	Water
DW030807B	193262-020	8-Mar-07	VOCs (8260B), NDMA (1625C), TPH-Gasoline/Stoddard Solvent (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Total & Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3, 7, 8, 9, 12)	Source Blank
WT030807	193262-021	8-Mar-07	Total Metals (6020, 7470A), General Chemistry Parameters (8, 10, 11, 12, 14)	Water
937GW07	193262-022	8-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
937GW15	193262-023	8-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water

Table 1
Sample Summary
First Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Site Sample ID	Laboratory Sample ID	Date Sampled	Analyses	Sample Type
DW030807A	193277-001	8-Mar-07	VOCs (8260B), NDMA (1625C), TPH-Gasoline/Stoddard Solvent (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Total & Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3, 7, 8, 9, 12)	Source Blank
LF6GW105CL	K0701586-001	27-Feb-07	Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 12)	QC (1)
231GW09CL	K0701586-002	27-Feb-07	Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 12)	QC (3)
1047MW101CL	K0701647-001	1-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 12)	QC (6)
1349MW01CL	K0701647-002	1-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PAHs (8310), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3)	QC (7)
DAEGW104CL	K0701703-001	2-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3, 7, 9)	QC (9)
TB030207C12A	K0701703-002	2-Mar-07	Volatile Organic Compounds (8260B)	Trip Blank
979GW115CL	K0701816-001	6-Mar-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	QC (10)
NKGW02CL	K0701816-002	6-Mar-07	VOCs (8260B), NDMA (1625C), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 8)	QC (12)
TB0306072A	K0701816-003	6-Mar-07	Volatile Organic Compounds (8260B)	Trip Blank

VOCs: Volatile Organic Compounds
TPH: Total Petroleum Hydrocarbons
FO: Fuel Oil
PCBs: Polychlorinated Biphenyls
PAHs: Polynuclear Aromatic Hydrocarbons
BTEX: Benzene, Toluene, Ethylbenzene, Xylenes
MTBE: Methyl tertiary-butyl ether
NDMA: N-Nitrosodimethylamine
FD: Field duplicate of previous numbered sample, (1), (2), etc.
QC: QC split duplicate of previous numbered sample, (1), (2), etc.

General Chemistry Parameters
(1) Total Dissolved Solids (160.1)
(2) Alkalinity (310.1)
(3) Anions (300.0)
(4) Fluoride (340.2)
(5) Nitrate-N (353.2)
(6) Nitrate/Nitrite-N (353.2)
(7) Hardness (SM 2340B)
(8) Cyanide (335.2)
(9) Surfactants (425.1)
(10) Oil & Grease (1664A)
(11) Phenolics (420.1)
(12) Sulfide (376.2)
(13) Total Organic Carbon (415.2)
(14) pH (SW9040B)
(15) Nitrite-N (354.1)

Table 2
Qualified Data Summary
First Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Sample ID	Laboratory ID	Analysis Method	Compound	Qualifier	Reason
LF6GW105	193027-001	376.2	Sulfide	R	MS/MSD percent recovery failure
1065PZ7A	193027-002	376.2	Sulfide	R	MS/MSD percent recovery failure
231GW09	193027-003	376.2	Sulfide	R	MS/MSD percent recovery failure
DUP0227072A	193027-004	376.2	Sulfide	R	MS/MSD percent recovery failure
DUP0227072B	193027-005	376.2	Sulfide	R	MS/MSD percent recovery failure
DUP0227072C	193027-006	376.2	Sulfide	R	MS/MSD percent recovery failure
BB1PZ100	193027-011	6020	Aluminum, total	J+	Interference Check Standard percent recovery failure
BB1PZ101	193027-012	6020	Aluminum, total	J+	Interference Check Standard percent recovery failure
LF10SP01	193027-013	6020	Aluminum, total	J+	Interference Check Standard percent recovery failure
LF6GW103	193055-004	8082	PCB-1248	UJ	Surrogate percent recovery failure
LF6GW103	193055-004	8082	PCB-1254	UJ	Surrogate percent recovery failure
LF6GW103	193055-004	8082	PCB-1260	UJ	Surrogate percent recovery failure
LF6GW100	193055-005	8082	PCB-1248	UJ	Surrogate percent recovery failure
LF6GW100	193055-005	8082	PCB-1254	UJ	Surrogate percent recovery failure
LF6GW100	193055-005	8082	PCB-1260	UJ	Surrogate percent recovery failure
LF6GW101	193055-006	8082	PCB-1248	UJ	Surrogate percent recovery failure
LF6GW101	193055-006	8082	PCB-1254	UJ	Surrogate percent recovery failure
LF6GW101	193055-006	8082	PCB-1260	UJ	Surrogate percent recovery failure
LF4GW103	193055-009	8082	PCB-1248	UJ	Surrogate percent recovery failure
LF4GW103	193055-009	8082	PCB-1254	UJ	Surrogate percent recovery failure
LF4GW103	193055-009	8082	PCB-1260	UJ	Surrogate percent recovery failure
1349MW02	193055-011	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
1349MW103	193055-012	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
1349MW104	193055-013	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
1349MW105	193055-014	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
1349MW105	193055-014	6020	Magnesium, dissolved	J	Serial dilution percent difference failure
TB0228073A	193055-015	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
LF01GW01	193055-016	6020	Magnesium, dissolved	J	Serial dilution percent difference failure
LF01GW02	193055-017	6020	Magnesium, dissolved	J	Serial dilution percent difference failure
LF01GW03	193055-018	6020	Magnesium, dissolved	J	Serial dilution percent difference failure
LF01GW04	193055-019	6020	Magnesium, dissolved	J	Serial dilution percent difference failure
LF01GW05	193055-020	6020	Magnesium, dissolved	J	Serial dilution percent difference failure
LF01GW06	193055-021	6020	Magnesium, dissolved	J	Serial dilution percent difference failure
LF01GW07	193055-022	6020	Magnesium, dissolved	J	Serial dilution percent difference failure
EPSP01	193055-023	6020	Magnesium, dissolved	J	Serial dilution percent difference failure
LF02GW01	193055-024	6020	Magnesium, dissolved	J	Serial dilution percent difference failure
LF02GW02	193055-025	6020	Magnesium, dissolved	J	Serial dilution percent difference failure
DUP0228071A	193055-026	6020	Magnesium, dissolved	J	Serial dilution percent difference failure
1047MW101	193108-001	6020	Calcium, dissolved	J	Serial dilution percent difference failure
1047MW101	193108-001	6020	Sodium, dissolved	J	Serial dilution percent difference failure
1047MW101	193108-001	376.2	Sulfide	UJ	MS/MSD percent recovery failure
1065PZ4B	193108-002	6020	Calcium, dissolved	J	Serial dilution percent difference failure
1065PZ4B	193108-002	6020	Sodium, dissolved	J	Serial dilution percent difference failure
1065PZ4B	193108-002	376.2	Sulfide	UJ	MS/MSD percent recovery failure
1065PZ7B	193108-003	6020	Calcium, dissolved	J	Serial dilution percent difference failure

Table 2
Qualified Data Summary
First Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Sample ID	Laboratory ID	Analysis Method	Compound	Qualifier	Reason
1065PZ7B	193108-003	6020	Sodium, dissolved	J	Serial dilution percent difference failure
1065PZ7B	193108-003	376.2	Sulfide	UJ	MS/MSD percent recovery failure
1065PZ5AR	193108-004	6020	Calcium, dissolved	J	Serial dilution percent difference failure
1065PZ5AR	193108-004	6020	Sodium, dissolved	J	Serial dilution percent difference failure
1065PZ5AR	193108-004	376.2	Sulfide	UJ	MS/MSD percent recovery failure
1065PZ5B	193108-005	6020	Calcium, dissolved	J	Serial dilution percent difference failure
1065PZ5B	193108-005	6020	Sodium, dissolved	J	Serial dilution percent difference failure
1065PZ5B	193108-005	376.2	Sulfide	UJ	MS/MSD percent recovery failure
DUP0301072A	193108-006	6020	Calcium, dissolved	J	Serial dilution percent difference failure
DUP0301072A	193108-006	6020	Sodium, dissolved	J	Serial dilution percent difference failure
DUP0301072A	193108-006	376.2	Sulfide	UJ	MS/MSD percent recovery failure
1349MW01	193108-007	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
1349MW01	193108-007	6020	Cadmium, dissolved	J	Serial dilution percent difference failure
1349MW01	193108-007	6020	Potassium, dissolved	J	Serial dilution percent difference failure
1349MW01	193108-007	6020	Zinc, dissolved	J	Serial dilution percent difference failure
1349MW100	193108-008	8081A	alpha-BHC	UJ	Surrogate percent recovery failure
1349MW100	193108-008	8081A	beta-BHC	UJ	Surrogate percent recovery failure
1349MW100	193108-008	8081A	delta-BHC	UJ	Surrogate percent recovery failure
1349MW100	193108-008	8081A	gamma-BHC	J-	Surrogate percent recovery failure
1349MW100	193108-008	8081A	Heptachlor	J-	Surrogate percent recovery failure
1349MW100	193108-008	8081A	Aldrin	UJ	Surrogate percent recovery failure
1349MW100	193108-008	8081A	Heptachlor epoxide	UJ	Surrogate percent recovery failure
1349MW100	193108-008	8081A	Endosulfan I	UJ	Surrogate percent recovery failure
1349MW100	193108-008	8082	PCB-1016	UJ	Surrogate percent recovery failure
1349MW100	193108-008	8082	PCB-1221	UJ	Surrogate percent recovery failure
1349MW100	193108-008	8082	PCB-1232	UJ	Surrogate percent recovery failure
1349MW100	193108-008	8082	PCB-1242	UJ	Surrogate percent recovery failure
1349MW100	193108-008	8082	PCB-1248	UJ	Surrogate percent recovery failure
1349MW100	193108-008	8082	PCB-1254	UJ	Surrogate percent recovery failure
1349MW100	193108-008	8082	PCB-1260	UJ	Surrogate percent recovery failure
1349MW100	193108-008	6020	Cadmium, dissolved	UJ	Serial dilution percent difference failure
1349MW100	193108-008	6020	Potassium, dissolved	J	Serial dilution percent difference failure
1349MW100	193108-008	6020	Zinc, dissolved	UJ	Serial dilution percent difference failure
DAEGW06	193108-009	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
DAEGW06	193108-009	6020	Cadmium, dissolved	UJ	Serial dilution percent difference failure
DAEGW06	193108-009	6020	Potassium, dissolved	J	Serial dilution percent difference failure
DAEGW06	193108-009	6020	Zinc, dissolved	UJ	Serial dilution percent difference failure
DUP0301073A	193108-010	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
DUP0301073A	193108-010	6020	Cadmium, dissolved	J	Serial dilution percent difference failure
DUP0301073A	193108-010	6020	Potassium, dissolved	J	Serial dilution percent difference failure
DUP0301073A	193108-010	6020	Zinc, dissolved	J	Serial dilution percent difference failure
DUP0301073B	193108-011	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
DUP0301073B	193108-011	8081A	alpha-BHC	UJ	Surrogate percent recovery failure
DUP0301073B	193108-011	8081A	beta-BHC	UJ	Surrogate percent recovery failure
DUP0301073B	193108-011	8081A	delta-BHC	UJ	Surrogate percent recovery failure

Table 2
Qualified Data Summary
First Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Sample ID	Laboratory ID	Analysis Method	Compound	Qualifier	Reason
DUP0301073B	193108-011	8081A	gamma-BHC	J-	Surrogate percent recovery failure
DUP0301073B	193108-011	8081A	Heptachlor	J-	Surrogate percent recovery failure
DUP0301073B	193108-011	8081A	Aldrin	UJ	Surrogate percent recovery failure
DUP0301073B	193108-011	8081A	Heptachlor epoxide	UJ	Surrogate percent recovery failure
DUP0301073B	193108-011	8081A	Endosulfan I	UJ	Surrogate percent recovery failure
DUP0301073B	193108-011	8082	PCB-1016	UJ	Surrogate percent recovery failure
DUP0301073B	193108-011	8082	PCB-1221	UJ	Surrogate percent recovery failure
DUP0301073B	193108-011	8082	PCB-1232	UJ	Surrogate percent recovery failure
DUP0301073B	193108-011	8082	PCB-1242	UJ	Surrogate percent recovery failure
DUP0301073B	193108-011	8082	PCB-1248	UJ	Surrogate percent recovery failure
DUP0301073B	193108-011	8082	PCB-1254	UJ	Surrogate percent recovery failure
DUP0301073B	193108-011	8082	PCB-1260	UJ	Surrogate percent recovery failure
DUP0301073B	193108-011	6020	Cadmium, dissolved	UJ	Serial dilution percent difference failure
DUP0301073B	193108-011	6020	Potassium, dissolved	J	Serial dilution percent difference failure
DUP0301073B	193108-011	6020	Zinc, dissolved	UJ	Serial dilution percent difference failure
1213GW101	193108-012	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
1213GW101	193108-012	8015B	Diesel C12-C24	UJ	Missed extraction holding time
1213GW101	193108-012	8015B	Motor Oil C24-C36	UJ	Missed extraction holding time
1213GW101	193108-012	6020	Cadmium, dissolved	UJ	Serial dilution percent difference failure
1213GW101	193108-012	6020	Potassium, dissolved	J	Serial dilution percent difference failure
1213GW101	193108-012	6020	Zinc, dissolved	UJ	Serial dilution percent difference failure
DAEGW08	193108-013	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
DAEGW08	193108-013	8082	PCB-1016	UJ	Surrogate percent recovery failure
DAEGW08	193108-013	8082	PCB-1221	UJ	Surrogate percent recovery failure
DAEGW08	193108-013	8082	PCB-1232	UJ	Surrogate percent recovery failure
DAEGW08	193108-013	8082	PCB-1242	UJ	Surrogate percent recovery failure
DAEGW08	193108-013	8082	PCB-1248	UJ	Surrogate percent recovery failure
DAEGW08	193108-013	8082	PCB-1254	UJ	Surrogate percent recovery failure
DAEGW08	193108-013	8082	PCB-1260	UJ	Surrogate percent recovery failure
DAEGW08	193108-013	6020	Cadmium, dissolved	UJ	Serial dilution percent difference failure
DAEGW08	193108-013	6020	Potassium, dissolved	J	Serial dilution percent difference failure
DAEGW08	193108-013	6020	Zinc, dissolved	J	Serial dilution percent difference failure
LF02GW04	193108-014	6020	Cadmium, dissolved	UJ	Serial dilution percent difference failure
LF02GW04	193108-014	6020	Potassium, dissolved	J	Serial dilution percent difference failure
LF02GW04	193108-014	6020	Zinc, dissolved	UJ	Serial dilution percent difference failure
1065PZ1A	193108-015	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
1065PZ1A	193108-015	6020	Calcium, dissolved	J	Serial dilution percent difference failure
1065PZ1A	193108-015	6020	Sodium, dissolved	J	Serial dilution percent difference failure
1065PZ1A	193108-015	376.2	Sulfide	UJ	MS/MSD percent recovery failure
1065PZ2A	193108-016	6020	Calcium, dissolved	J	Serial dilution percent difference failure
1065PZ2A	193108-016	6020	Sodium, dissolved	J	Serial dilution percent difference failure
1065PZ2A	193108-016	376.2	Sulfide	UJ	MS/MSD percent recovery failure
1065PZ3A	193108-017	6020	Calcium, dissolved	J	Serial dilution percent difference failure
1065PZ3A	193108-017	6020	Sodium, dissolved	J	Serial dilution percent difference failure
1065PZ3A	193108-017	376.2	Sulfide	UJ	MS/MSD percent recovery failure

Table 2
Qualified Data Summary
First Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Sample ID	Laboratory ID	Analysis Method	Compound	Qualifier	Reason
1065PZ4A	193108-018	6020	Calcium, dissolved	J	Serial dilution percent difference failure
1065PZ4A	193108-018	6020	Sodium, dissolved	J	Serial dilution percent difference failure
1065PZ4A	193108-018	376.2	Sulfide	UJ	MS/MSD percent recovery failure
1065MW101	193108-019	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
1065MW101	193108-019	6020	Calcium, dissolved	J	Serial dilution percent difference failure
1065MW101	193108-019	6020	Sodium, dissolved	J	Serial dilution percent difference failure
1065MW101	193108-019	376.2	Sulfide	UJ	MS/MSD percent recovery failure
1065MW102	193108-020	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
1065MW102	193108-020	6020	Calcium, dissolved	J	Serial dilution percent difference failure
1065MW102	193108-020	6020	Sodium, dissolved	J	Serial dilution percent difference failure
1065MW102	193108-020	376.2	Sulfide	UJ	MS/MSD percent recovery failure
TB0301073A	193108-021	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
DAEGW103	193108-022	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
DAEGW103	193108-022	8082	PCB-1248	UJ	Surrogate percent recovery failure
DAEGW103	193108-022	8082	PCB-1254	UJ	Surrogate percent recovery failure
DAEGW103	193108-022	8082	PCB-1260	UJ	Surrogate percent recovery failure
DAEGW103	193108-022	6020	Cadmium, dissolved	UJ	Serial dilution percent difference failure
DAEGW103	193108-022	6020	Potassium, dissolved	J	Serial dilution percent difference failure
DAEGW103	193108-022	6020	Zinc, dissolved	UJ	Serial dilution percent difference failure
DAEGW103	193108-022	425.1	Surfactants (MBAS)	UJ	Missed analysis holding time
DAEGW103	193108-022	160.1	Total Dissolved Solids	J+	LCS/LCSD percent recovery failure
DAEGW104	193108-023	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
DAEGW104	193108-023	8015B	Diesel C12-C24	UJ	Missed extraction HT, MS/MSD %R failure, MS/MSD RPD failure
DAEGW104	193108-023	8015B	Motor Oil C24-C36	UJ	Missed extraction holding time
DAEGW104	193108-023	8082	PCB-1248	UJ	Surrogate percent recovery failure
DAEGW104	193108-023	8082	PCB-1254	UJ	Surrogate percent recovery failure
DAEGW104	193108-023	8082	PCB-1260	UJ	Surrogate percent recovery failure
DAEGW104	193108-023	8310	Benzo(a)pyrene	UJ	MS/MSD percent recovery failure
DAEGW104	193108-023	6020	Cadmium, dissolved	UJ	Serial dilution percent difference failure
DAEGW104	193108-023	6020	Potassium, dissolved	J	Serial dilution percent difference failure
DAEGW104	193108-023	6020	Zinc, dissolved	UJ	Serial dilution percent difference failure
DAEGW104	193108-023	425.1	Surfactants (MBAS)	UJ	Missed analysis holding time
DAEGW104	193108-023	160.1	Total Dissolved Solids	J+	LCS/LCSD percent recovery failure
DAEGW101	193108-024	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
DAEGW101	193108-024	6020	Cadmium, dissolved	UJ	Serial dilution percent difference failure
DAEGW101	193108-024	6020	Potassium, dissolved	J	Serial dilution percent difference failure
DAEGW101	193108-024	6020	Zinc, dissolved	UJ	Serial dilution percent difference failure
DAEGW101	193108-024	160.1	Total Dissolved Solids	J+	LCS/LCSD percent recovery failure
DAEGW03	193108-025	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
DAEGW03	193108-025	8015B	Diesel C12-C24	UJ	Missed extraction holding time
DAEGW03	193108-025	8015B	Motor Oil C24-C36	UJ	Missed extraction holding time
DAEGW03	193108-025	8082	PCB-1016	UJ	Surrogate percent recovery failure
DAEGW03	193108-025	8082	PCB-1221	UJ	Surrogate percent recovery failure
DAEGW03	193108-025	8082	PCB-1232	UJ	Surrogate percent recovery failure
DAEGW03	193108-025	8082	PCB-1242	UJ	Surrogate percent recovery failure

Table 2
Qualified Data Summary
First Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Sample ID	Laboratory ID	Analysis Method	Compound	Qualifier	Reason
DAEGW03	193108-025	8082	PCB-1248	UJ	Surrogate percent recovery failure
DAEGW03	193108-025	8082	PCB-1254	UJ	Surrogate percent recovery failure
DAEGW03	193108-025	8082	PCB-1260	UJ	Surrogate percent recovery failure
DAEGW03	193108-025	6020	Cadmium, dissolved	J	Serial dilution percent difference failure
DAEGW03	193108-025	6020	Potassium, dissolved	J	Serial dilution percent difference failure
DAEGW03	193108-025	6020	Zinc, dissolved	UJ	Serial dilution percent difference failure
DAEGW03	193108-025	160.1	Total Dissolved Solids	J+	LCS/LCSD percent recovery failure
DAEGW05	193108-026	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
DAEGW05	193108-026	8015B	Diesel C12-C24	UJ	Missed extraction holding time
DAEGW05	193108-026	8015B	Motor Oil C24-C36	UJ	Missed extraction holding time
DAEGW05	193108-026	8082	PCB-1016	UJ	Surrogate percent recovery failure
DAEGW05	193108-026	8082	PCB-1221	UJ	Surrogate percent recovery failure
DAEGW05	193108-026	8082	PCB-1232	UJ	Surrogate percent recovery failure
DAEGW05	193108-026	8082	PCB-1242	UJ	Surrogate percent recovery failure
DAEGW05	193108-026	8082	PCB-1248	UJ	Surrogate percent recovery failure
DAEGW05	193108-026	8082	PCB-1254	UJ	Surrogate percent recovery failure
DAEGW05	193108-026	8082	PCB-1260	UJ	Surrogate percent recovery failure
DAEGW05	193108-026	6020	Cadmium, dissolved	UJ	Serial dilution percent difference failure
DAEGW05	193108-026	6020	Potassium, dissolved	J	Serial dilution percent difference failure
DAEGW05	193108-026	6020	Zinc, dissolved	UJ	Serial dilution percent difference failure
DAEGW05	193108-026	160.1	Total Dissolved Solids	J+	LCS/LCSD percent recovery failure
DUP0302071A	193108-027	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
DUP0302071A	193108-027	8015B	Diesel C12-C24	UJ	Missed extraction holding time
DUP0302071A	193108-027	8015B	Motor Oil C24-C36	UJ	Missed extraction holding time
DUP0302071A	193108-027	8082	PCB-1248	UJ	Surrogate percent recovery failure
DUP0302071A	193108-027	8082	PCB-1254	UJ	Surrogate percent recovery failure
DUP0302071A	193108-027	8082	PCB-1260	UJ	Surrogate percent recovery failure
DUP0302071A	193108-027	6020	Cadmium, dissolved	UJ	Serial dilution percent difference failure
DUP0302071A	193108-027	6020	Potassium, dissolved	J	Serial dilution percent difference failure
DUP0302071A	193108-027	6020	Zinc, dissolved	UJ	Serial dilution percent difference failure
DUP0302071A	193108-027	425.1	Surfactants (MBAS)	UJ	Missed analysis holding time
DUP0302071A	193108-027	160.1	Total Dissolved Solids	J+	LCS/LCSD percent recovery failure
514AGW101	193137-001	8015B	Diesel C12-C24	UJ	Missed extraction holding time
514AGW101	193137-001	8015B	Motor Oil C24-C36	UJ	Missed extraction holding time
937GW37	193137-002	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
937GW37	193137-002	8015B	Diesel C12-C24	UJ	Missed extraction holding time
937GW37	193137-002	8015B	Motor Oil C24-C36	UJ	Missed extraction holding time
937GW35	193137-003	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
937GW35	193137-003	8015B	Diesel C12-C24	UJ	Missed extraction holding time
937GW35	193137-003	8015B	Motor Oil C24-C36	UJ	Missed extraction holding time
937GW32R	193137-004	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
937GW32R	193137-004	8015B	Diesel C12-C24	UJ	Missed extraction holding time
937GW32R	193137-004	8015B	Motor Oil C24-C36	UJ	Missed extraction holding time
NKGW04	193137-005	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
NKGW04	193137-005	8015B	Diesel C12-C24	UJ	Missed extraction holding time

Table 2
Qualified Data Summary
First Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Sample ID	Laboratory ID	Analysis Method	Compound	Qualifier	Reason
NKGW04	193137-005	8015B	Motor Oil C24-C36	UJ	Missed extraction holding time
NKGW04	193137-005	160.1	Total Dissolved Solids	J+	LCS/LCSD percent recovery failure
937GW38	193174-001	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
937GW06	193174-002	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
937GW39	193174-003	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
937GW42	193174-004	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
937GW108	193174-005	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
937GW12	193174-006	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
937GW103	193174-007	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
937GW102	193174-008	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
937GW104	193174-010	8260B	cis-1,2-Dichloroethene	J+	Surrogate percent recovery failure
937GW104	193174-010	8260B	Vinyl chloride	J+	Surrogate percent recovery failure
979GW111R	193174-011	8260B	cis-1,2-Dichloroethene	J+	Surrogate percent recovery failure
979GW111R	193174-011	8260B	trans-1,2-Dichloroethene	J+	Surrogate percent recovery failure
979GW111R	193174-011	8260B	Trichloroethene	J+	Surrogate percent recovery failure
979GW111R	193174-011	8260B	Vinyl chloride	J+	Surrogate percent recovery failure
937GW106	193174-014	8260B	Benzene	J+	Surrogate percent recovery failure
937GW106	193174-014	8260B	cis-1,2-Dichloroethene	J+	Surrogate percent recovery failure
937GW106	193174-014	8260B	Trichloroethene	J+	Surrogate percent recovery failure
937GW107	193174-015	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
979GW109	193174-016	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
979GW110	193174-017	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
979GW109RB979GW110	193174-018	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
979GW112	193174-019	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
979GW113	193217-001	8260B	cis-1,2-Dichloroethene	J+	Surrogate percent recovery failure
979GW113	193217-001	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
979GW113RB979GW114	193217-002	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
DUP0306071B	193217-008	8260B	cis-1,2-Dichloroethene	J+	Surrogate percent recovery failure
DUP0306071B	193217-008	8260B	trans-1,2-Dichloroethene	J+	Surrogate percent recovery failure
DUP0306071B	193217-008	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
937GW101	193217-009	8260B	cis-1,2-Dichloroethene	J+	Surrogate percent recovery failure
937GW101	193217-009	8260B	trans-1,2-Dichloroethene	J+	Surrogate percent recovery failure
937GW101	193217-009	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
NKGW02	193217-011	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
NKGW02	193217-011	8015B	Gasoline C7-C12	UJ	MS/MSD percent recovery failure
DUP0306071C	193217-012	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
TB0306072A	193217-013	8260B	Chloroform	J+	Surrogate percent recovery failure
TB0306072A	193217-013	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
LF08GW01	193217-014	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
LF08GW02B	193217-015	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
LF08GW03	193217-016	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
LF08GW06	193217-017	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
HWGW100	193217-018	8260B	1,1-Dichloroethene	J+	Surrogate percent recovery failure
HWGW100	193217-018	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
HWGW100	193217-018	300.0	Nitrate-Nitrogen	U	Equipment blank contamination

Table 2
Qualified Data Summary
First Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Sample ID	Laboratory ID	Analysis Method	Compound	Qualifier	Reason
HWGW101	193217-019	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
BHWGW04	193217-021	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
BHWGW05	193217-022	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
BHWGW05RBBHWGW01	193217-023	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
DUP0306073A	193217-024	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
1221GW104	193262-001	6020	Potassium, dissolved	J	Serial dilution percent difference failure
LF08GW04	193262-002	8081A	Endrin ketone	UJ	Continuing calibration verification percent difference failure
LF08GW04	193262-002	6020	Potassium, dissolved	J	Serial dilution percent difference failure
DAEGW04	193262-003	6020	Potassium, dissolved	J	Serial dilution percent difference failure
1065MW10A	193262-004	8021B	Methyl tertiary-butyl ether	U	Equipment blank contamination
1065MW10A	193262-004	6020	Potassium, dissolved	J	Serial dilution percent difference failure
1065MW10B	193262-005	8021B	Methyl tertiary-butyl ether	U	Equipment blank contamination
1065MW10B	193262-005	6020	Potassium, dissolved	J	Serial dilution percent difference failure
DUP0307073B	193262-006	6020	Potassium, dissolved	J	Serial dilution percent difference failure
DUP0307073A	193262-007	8081A	Endrin ketone	UJ	Continuing calibration verification percent difference failure
DUP0307073A	193262-007	6020	Potassium, dissolved	J	Serial dilution percent difference failure
1065MW10ARB1065MW10B	193262-008	6020	Potassium, dissolved	UJ	Serial dilution percent difference failure
TB0307071A	193262-009	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
1065PZ1B	193262-010	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
1065PZ1B	193262-010	6020	Potassium, dissolved	J	Serial dilution percent difference failure
1065PZ6B	193262-011	8021B	Methyl tertiary-butyl ether	U	Equipment blank contamination
1065PZ6B	193262-011	6020	Potassium, dissolved	J	Serial dilution percent difference failure
1065PZ6BRB1065MW9A	193262-012	6020	Potassium, dissolved	UJ	Serial dilution percent difference failure
1065MW9A	193262-013	8021B	Methyl tertiary-butyl ether	U	Equipment blank contamination
1065MW9A	193262-013	6020	Potassium, dissolved	J	Serial dilution percent difference failure
1065MW9B	193262-014	8021B	Methyl tertiary-butyl ether	U	Equipment blank contamination
1065MW9B	193262-014	6020	Potassium, dissolved	J	Serial dilution percent difference failure
1065MW11A	193262-015	6020	Potassium, dissolved	J	Serial dilution percent difference failure
1065MW11B	193262-016	8021B	Methyl tertiary-butyl ether	U	Equipment blank contamination
1065MW11B	193262-016	6020	Potassium, dissolved	J	Serial dilution percent difference failure
NKGW01	193262-017	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
NKGW01	193262-017	1625C	N-Nitrosodimethylamine	U	Field blank contamination
NKGW01	193262-017	6020	Potassium, dissolved	J	Serial dilution percent difference failure
NKGW05	193262-018	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
NKGW05	193262-018	1625C	N-Nitrosodimethylamine	U	Field blank contamination
NKGW05	193262-018	6020	Potassium, dissolved	J	Serial dilution percent difference failure
DAEGW102	193262-019	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
DAEGW102	193262-019	8081A	Endrin ketone	UJ	Continuing calibration verification percent difference failure
DAEGW102	193262-019	6020	Potassium, dissolved	J	Serial dilution percent difference failure
DAEGW102	193262-019	425.1	Surfactants (MBAS)	UJ	Missed analysis holding time
DW030807B	193262-020	8260B	Benzene	J+	Surrogate percent recovery failure
DW030807B	193262-020	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
DW030807B	193262-020	8081A	Endrin ketone	UJ	Continuing calibration verification percent difference failure
DW030807B	193262-020	6020	Potassium, dissolved	UJ	Serial dilution percent difference failure
937GW07	193262-022	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure

Table 2
Qualified Data Summary
First Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Sample ID	Laboratory ID	Analysis Method	Compound	Qualifier	Reason
937GW15	193262-023	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
DW030807A	193277-001	8260B	Carbon disulfide	UJ	Continuing calibration verification percent difference failure
DW030807A	193277-001	8081A	Endrin ketone	UJ	Continuing calibration verification percent difference failure
LF6GW105CL	K0701568-001	160.1	Total dissolved solids	J-	Missed analysis holding time
LF6GW105CL	K0701568-001	376.2	Sulfide	UJ	MS/MSD percent recovery failure
231GW09CL	K0701568-002	160.1	Total dissolved solids	J-	Missed analysis holding time
231GW09CL	K0701568-002	376.2	Sulfide	UJ	MS/MSD percent recovery failure
1047MW101CL	K0701647-001	8260B	Vinyl acetate	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
1047MW101CL	K0701647-001	8260B	Acetone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
1047MW101CL	K0701647-001	8260B	2-Butanone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
1047MW101CL	K0701647-001	8260B	2-Hexanone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
1047MW101CL	K0701647-001	8260B	4-Methyl-2-pentanone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
1047MW101CL	K0701647-001	8260B	Bromoform	UJ	Continuing calibration verification percent difference failure
1047MW101CL	K0701647-001	160.1	Total dissolved solids	J-	Missed analysis holding time
1047MW101CL	K0701647-001	376.2	Sulfide	UJ	MS/MSD percent recovery failure
1349MW01CL	K0701647-002	8260B	Vinyl acetate	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
1349MW01CL	K0701647-002	8260B	Acetone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
1349MW01CL	K0701647-002	8260B	2-Butanone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
1349MW01CL	K0701647-002	8260B	2-Hexanone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
1349MW01CL	K0701647-002	8260B	4-Methyl-2-pentanone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
1349MW01CL	K0701647-002	8260B	Bromoform	UJ	Continuing calibration verification percent difference failure
1349MW01CL	K0701647-002	8081A	Aldrin	UJ	LCS/LCSD percent recovery failure
1349MW01CL	K0701647-002	160.1	Total dissolved solids	J-	Missed analysis holding time
DAEGW104CL	K0701703-001	8260B	Vinyl acetate	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
DAEGW104CL	K0701703-001	8260B	Acetone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
DAEGW104CL	K0701703-001	8260B	2-Butanone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
DAEGW104CL	K0701703-001	8260B	2-Hexanone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
DAEGW104CL	K0701703-001	8260B	4-Methyl-2-pentanone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
DAEGW104CL	K0701703-001	8260B	Bromoform	UJ	Continuing calibration verification percent difference failure
DAEGW104CL	K0701703-001	8081A	Dieldrin	UJ	Surrogate percent recovery failure
DAEGW104CL	K0701703-001	8081A	4,4'-DDE	UJ	Surrogate percent recovery failure
DAEGW104CL	K0701703-001	8081A	Endrin	UJ	Surrogate percent recovery failure
DAEGW104CL	K0701703-001	8081A	Endosulfan II	UJ	Surrogate percent recovery failure
DAEGW104CL	K0701703-001	8081A	4,4'-DDD	UJ	Surrogate percent recovery failure
DAEGW104CL	K0701703-001	8081A	Endosulfan sulfate	UJ	Surrogate percent recovery failure
DAEGW104CL	K0701703-001	8081A	4,4'-DDT	UJ	Surrogate percent recovery failure
DAEGW104CL	K0701703-001	8081A	Methoxychlor	UJ	Surrogate percent recovery failure
DAEGW104CL	K0701703-001	8081A	Endrin ketone	UJ	Surrogate percent recovery failure
DAEGW104CL	K0701703-001	8081A	Endrin aldehyde	UJ	Surrogate %R failure, LCS/LCSD %R failure
DAEGW104CL	K0701703-001	8081A	alpha-Chlordane	UJ	Surrogate percent recovery failure
DAEGW104CL	K0701703-001	8081A	gamma-Chlordane	UJ	Surrogate percent recovery failure
DAEGW104CL	K0701703-001	8081A	Toxaphene	UJ	Surrogate percent recovery failure
DAEGW104CL	K0701703-001	8081A	alpha-BHC	UJ	Surrogate %R failure, LCS/LCSD %R failure
DAEGW104CL	K0701703-001	8081A	beta-BHC	UJ	Surrogate percent recovery failure
DAEGW104CL	K0701703-001	8081A	delta-BHC	UJ	Surrogate percent recovery failure

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First Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Sample ID	Laboratory ID	Analysis Method	Compound	Qualifier	Reason
DAEGW104CL	K0701703-001	8081A	gamma-BHC	UJ	Surrogate percent recovery failure
DAEGW104CL	K0701703-001	8081A	Heptachlor	UJ	Surrogate %R failure, LCS/LCSD %R failure
DAEGW104CL	K0701703-001	8081A	Aldrin	UJ	Surrogate %R failure, LCS/LCSD %R failure, LCS/LCSD RPD failure
DAEGW104CL	K0701703-001	8081A	Heptachlor epoxide	UJ	Surrogate percent recovery failure
DAEGW104CL	K0701703-001	8081A	Endosulfan I	UJ	Surrogate percent recovery failure
DAEGW104CL	K0701703-001	8082	PCB-1016	UJ	Surrogate percent recovery failure
DAEGW104CL	K0701703-001	8082	PCB-1221	UJ	Surrogate percent recovery failure
DAEGW104CL	K0701703-001	8082	PCB-1232	UJ	Surrogate percent recovery failure
DAEGW104CL	K0701703-001	8082	PCB-1242	UJ	Surrogate percent recovery failure
DAEGW104CL	K0701703-001	8082	PCB-1248	UJ	Surrogate percent recovery failure
DAEGW104CL	K0701703-001	8082	PCB-1254	UJ	Surrogate percent recovery failure
DAEGW104CL	K0701703-001	8082	PCB-1260	UJ	Surrogate percent recovery failure
DAEGW104CL	K0701703-001	160.1	Total dissolved solids	J-	Missed analysis holding time
TB030207C12A	K0701703-002	8260B	Vinyl acetate	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
TB030207C12A	K0701703-002	8260B	Acetone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
TB030207C12A	K0701703-002	8260B	2-Butanone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
TB030207C12A	K0701703-002	8260B	2-Hexanone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
TB030207C12A	K0701703-002	8260B	4-Methyl-2-pentanone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
TB030207C12A	K0701703-002	8260B	Bromoform	UJ	Continuing calibration verification percent difference failure
979GW115CL	K0701816-001	8260B	Vinyl acetate	R	Minimum average RRF < 0.05, Minimum RRF < 0.05, CCV %D failure
979GW115CL	K0701816-001	8260B	Acetone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
979GW115CL	K0701816-001	8260B	2-Butanone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
979GW115CL	K0701816-001	8260B	2-Hexanone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
979GW115CL	K0701816-001	8260B	4-Methyl-2-pentanone	R	Minimum average RRF < 0.05
979GW115CL	K0701816-001	8260B	Bromoform	UJ	Continuing calibration verification percent difference failure
NKGW02CL	K0701816-002	8260B	Vinyl acetate	R	Minimum average RRF < 0.05, Minimum RRF < 0.05, CCV %D failure
NKGW02CL	K0701816-002	8260B	Acetone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
NKGW02CL	K0701816-002	8260B	2-Butanone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
NKGW02CL	K0701816-002	8260B	2-Hexanone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
NKGW02CL	K0701816-002	8260B	4-Methyl-2-pentanone	R	Minimum average RRF < 0.05
NKGW02CL	K0701816-002	8260B	Bromoform	UJ	Continuing calibration verification percent difference failure
TB0306072A	K0701816-003	8260B	Vinyl acetate	R	Minimum average RRF < 0.05, Minimum RRF < 0.05, CCV %D failure
TB0306072A	K0701816-003	8260B	Acetone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
TB0306072A	K0701816-003	8260B	2-Butanone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
TB0306072A	K0701816-003	8260B	2-Hexanone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
TB0306072A	K0701816-003	8260B	4-Methyl-2-pentanone	R	Minimum average RRF < 0.05

LCS/LCSD: Laboratory control sample/laboratory control sample duplicate
MS/MSD: Matrix spike/matrix spike duplicate
HT: Holding time
%R: Percent recovery
RPD: Relative percent difference
RRF: Relative response factor

Table 3
Summary of Field Duplicates
First Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	Duplicate Sample ID	Laboratory ID	Duplicate Results*	RPD
LF6GW105	193027-001	Water	Barium, dissolved	51	DUP0227072A	193027-004	49	4.0%
LF6GW105	193027-001	Water	Calcium, dissolved	39000	DUP0227072A	193027-004	40000	-2.5%
LF6GW105	193027-001	Water	Chromium, dissolved	30	DUP0227072A	193027-004	30	0%
LF6GW105	193027-001	Water	Magnesium, dissolved	62000	DUP0227072A	193027-004	64000	-3.2%
LF6GW105	193027-001	Water	Potassium, dissolved	ND<500	DUP0227072A	193027-004	530	NC
LF6GW105	193027-001	Water	Sodium, dissolved	74000	DUP0227072A	193027-004	79000	-6.5%
LF6GW105	193027-001	Water	All other metals	ND	DUP0227072A	193027-004	ND	NA
LF6GW105	193027-001	Water	Chloride	87	DUP0227072A	193027-004	87	0%
LF6GW105	193027-001	Water	Fluoride	ND	DUP0227072A	193027-004	ND	NA
LF6GW105	193027-001	Water	Nitrogen, Nitrate	4.7	DUP0227072A	193027-004	4.7	0%
LF6GW105	193027-001	Water	Nitrogen, Nitrite	ND	DUP0227072A	193027-004	ND	NA
LF6GW105	193027-001	Water	Sulfate	100	DUP0227072A	193027-004	100	0%
LF6GW105	193027-001	Water	Alkalinity, Total as CaCO3	320	DUP0227072A	193027-004	300	6.5%
LF6GW105	193027-001	Water	Sulfide	ND	DUP0227072A	193027-004	ND	NA
LF6GW105	193027-001	Water	Total Dissolved Solids	610	DUP0227072A	193027-004	590	3.3%
1065PZ7A	193027-002	Water	Gasoline C7-C12	ND	DUP0227072B	193027-005	ND	NA
1065PZ7A	193027-002	Water	Diesel C12-C24	ND	DUP0227072B	193027-005	ND	NA
1065PZ7A	193027-002	Water	Fuel Oil C24-C36	ND	DUP0227072B	193027-005	ND	NA
1065PZ7A	193027-002	Water	Methyl tertiary-butyl ether	12	DUP0227072B	193027-005	2.8	**124%**
1065PZ7A	193027-002	Water	Benzene	ND	DUP0227072B	193027-005	ND	NA
1065PZ7A	193027-002	Water	Toluene	ND	DUP0227072B	193027-005	ND	NA
1065PZ7A	193027-002	Water	Ethylbenzene	ND	DUP0227072B	193027-005	ND	NA
1065PZ7A	193027-002	Water	Xylene (total)	ND	DUP0227072B	193027-005	ND	NA
1065PZ7A	193027-002	Water	Calcium, dissolved	51000	DUP0227072B	193027-005	51000	0%
1065PZ7A	193027-002	Water	Copper, dissolved	1.5	DUP0227072B	193027-005	1.3	14%
1065PZ7A	193027-002	Water	Magnesium, dissolved	81000	DUP0227072B	193027-005	92000	-13%
1065PZ7A	193027-002	Water	Manganese, dissolved	18	DUP0227072B	193027-005	15	18%
1065PZ7A	193027-002	Water	Potassium, dissolved	610	DUP0227072B	193027-005	ND<500	NC
1065PZ7A	193027-002	Water	Sodium, dissolved	41000	DUP0227072B	193027-005	43000	-4.8%
1065PZ7A	193027-002	Water	All other metals	ND	DUP0227072B	193027-005	ND	NA
1065PZ7A	193027-002	Water	Chloride	35	DUP0227072B	193027-005	33	5.9%
1065PZ7A	193027-002	Water	Fluoride	0.12	DUP0227072B	193027-005	0.12	0%
1065PZ7A	193027-002	Water	Nitrogen, Nitrate	1.7	DUP0227072B	193027-005	1.7	0%
1065PZ7A	193027-002	Water	Nitrogen, Nitrite	ND	DUP0227072B	193027-005	ND	NA
1065PZ7A	193027-002	Water	Sulfate	74	DUP0227072B	193027-005	74	0%
1065PZ7A	193027-002	Water	Alkalinity, Total as CaCO3	540	DUP0227072B	193027-005	530	1.9%

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1065PZ7A	193027-002	Water	Sulfide	ND	DUP0227072B	193027-005	ND	NA
1065PZ7A	193027-002	Water	Total Dissolved Solids	650	DUP0227072B	193027-005	650	0%
231GW09	193027-003	Water	Barium, dissolved	53	DUP0227072C	193027-006	52	1.9%
231GW09	193027-003	Water	Calcium, dissolved	28000	DUP0227072C	193027-006	28000	0%
231GW09	193027-003	Water	Chromium, dissolved	24	DUP0227072C	193027-006	22	8.7%
231GW09	193027-003	Water	Magnesium, dissolved	47000	DUP0227072C	193027-006	46000	2.2%
231GW09	193027-003	Water	Sodium, dissolved	68000	DUP0227072C	193027-006	68000	0%
231GW09	193027-003	Water	All other metals	ND	DUP0227072C	193027-006	ND	NA
231GW09	193027-003	Water	Chloride	38	DUP0227072C	193027-006	38	0%
231GW09	193027-003	Water	Fluoride	ND	DUP0227072C	193027-006	ND	NA
231GW09	193027-003	Water	Nitrogen, Nitrate	14	DUP0227072C	193027-006	15	-6.9%
231GW09	193027-003	Water	Nitrogen, Nitrite	ND	DUP0227072C	193027-006	ND	NA
231GW09	193027-003	Water	Sulfate	67	DUP0227072C	193027-006	66	1.5%
231GW09	193027-003	Water	Alkalinity, Total as CaCO3	240	DUP0227072C	193027-006	240	0%
231GW09	193027-003	Water	Sulfide	ND	DUP0227072C	193027-006	ND	NA
231GW09	193027-003	Water	Total Dissolved Solids	510	DUP0227072C	193027-006	490	4.0%
1065PZ3B	193055-001	Water	Gasoline C7-C12	ND	DUP0228072A	193055-007	ND	NA
1065PZ3B	193055-001	Water	Diesel C12-C24	ND	DUP0228072A	193055-007	ND	NA
1065PZ3B	193055-001	Water	Fuel Oil C24-C36	ND	DUP0228072A	193055-007	ND	NA
1065PZ3B	193055-001	Water	Methyl tertiary-butyl ether	2.8	DUP0228072A	193055-007	4.8	NC
1065PZ3B	193055-001	Water	Benzene	ND	DUP0228072A	193055-007	ND	NA
1065PZ3B	193055-001	Water	Toluene	ND	DUP0228072A	193055-007	ND	NA
1065PZ3B	193055-001	Water	Ethylbenzene	ND	DUP0228072A	193055-007	ND	NA
1065PZ3B	193055-001	Water	Xylene (total)	ND	DUP0228072A	193055-007	ND	NA
1065PZ3B	193055-001	Water	Calcium, dissolved	35000	DUP0228072A	193055-007	37000	-5.6%
1065PZ3B	193055-001	Water	Chromium, dissolved	27	DUP0228072A	193055-007	27	0%
1065PZ3B	193055-001	Water	Magnesium, dissolved	46000	DUP0228072A	193055-007	48000	-4.3%
1065PZ3B	193055-001	Water	Sodium, dissolved	62000	DUP0228072A	193055-007	64000	-3.2%
1065PZ3B	193055-001	Water	Vanadium, dissolved	14	DUP0228072A	193055-007	15	-6.9%
1065PZ3B	193055-001	Water	All other metals	ND	DUP0228072A	193055-007	ND	NA
1065PZ3B	193055-001	Water	Chloride	57	DUP0228072A	193055-007	58	-1.7%
1065PZ3B	193055-001	Water	Fluoride	ND	DUP0228072A	193055-007	ND	NA
1065PZ3B	193055-001	Water	Nitrogen, Nitrate	2	DUP0228072A	193055-007	2	0%
1065PZ3B	193055-001	Water	Nitrogen, Nitrite	ND	DUP0228072A	193055-007	ND	NA
1065PZ3B	193055-001	Water	Sulfate	68	DUP0228072A	193055-007	68	0%
1065PZ3B	193055-001	Water	Alkalinity, Total as CaCO3	300	DUP0228072A	193055-007	290	3.4%

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The Presidio of San Francisco, CA

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1065PZ3B	193055-001	Water	Sulfide	ND	DUP0228072A	193055-007	ND	NA
1065PZ3B	193055-001	Water	Total Dissolved Solids	480	DUP0228072A	193055-007	480	0%
LF01GW04	193055-019	Water	Barium, dissolved	55	DUP0228071A	193055-026	55	0%
LF01GW04	193055-019	Water	Calcium, dissolved	36000	DUP0228071A	193055-026	36000	0%
LF01GW04	193055-019	Water	Chromium, dissolved	12	DUP0228071A	193055-026	12	0%
LF01GW04	193055-019	Water	Iron, dissolved	ND<100	DUP0228071A	193055-026	390	**>+/- RL**
LF01GW04	193055-019	Water	Magnesium, dissolved	29000	DUP0228071A	193055-026	30000	-3.4%
LF01GW04	193055-019	Water	Potassium, dissolved	8400	DUP0228071A	193055-026	8400	0%
LF01GW04	193055-019	Water	Sodium, dissolved	50000	DUP0228071A	193055-026	49000	2.0%
LF01GW04	193055-019	Water	Zinc, dissolved	ND<20	DUP0228071A	193055-026	22	NC
LF01GW04	193055-019	Water	All other metals	ND	DUP0228071A	193055-026	ND	NA
LF01GW04	193055-019	Water	Chloride	57	DUP0228071A	193055-026	57	0%
LF01GW04	193055-019	Water	Fluoride	ND	DUP0228071A	193055-026	ND	NA
LF01GW04	193055-019	Water	Nitrogen, Nitrate	8.1	DUP0228071A	193055-026	8.1	0%
LF01GW04	193055-019	Water	Nitrogen, Nitrite	ND	DUP0228071A	193055-026	ND	NA
LF01GW04	193055-019	Water	Sulfate	48	DUP0228071A	193055-026	48	0%
LF01GW04	193055-019	Water	Alkalinity, Total as CaCO3	200	DUP0228071A	193055-026	200	0%
LF01GW04	193055-019	Water	Cyanide	0.01	DUP0228071A	193055-026	ND<0.01	NC
LF01GW04	193055-019	Water	Total Dissolved Solids	430	DUP0228071A	193055-026	410	4.8%
1047MW101	193108-001	Water	All VOCs	ND	DUP0301072A	193108-006	ND	NA
1047MW101	193108-001	Water	Gasoline C7-C12	ND	DUP0301072A	193108-006	ND	NA
1047MW101	193108-001	Water	Stoddard Solvent C7-C12	ND	DUP0301072A	193108-006	ND	NA
1047MW101	193108-001	Water	Calcium, dissolved	8000	DUP0301072A	193108-006	8500	-6.1%
1047MW101	193108-001	Water	Magnesium, dissolved	6800	DUP0301072A	193108-006	6600	3.0%
1047MW101	193108-001	Water	Potassium, dissolved	1400	DUP0301072A	193108-006	1400	0%
1047MW101	193108-001	Water	Sodium, dissolved	7100	DUP0301072A	193108-006	7500	-5.5%
1047MW101	193108-001	Water	All other metals	ND	DUP0301072A	193108-006	ND	NA
1047MW101	193108-001	Water	Chloride	11	DUP0301072A	193108-006	11	0%
1047MW101	193108-001	Water	Fluoride	0.1	DUP0301072A	193108-006	ND< 0.1	NC
1047MW101	193108-001	Water	Nitrogen, Nitrate	0.27	DUP0301072A	193108-006	0.28	-3.6%
1047MW101	193108-001	Water	Nitrogen, Nitrite	ND	DUP0301072A	193108-006	ND	NA
1047MW101	193108-001	Water	Sulfate	5.7	DUP0301072A	193108-006	5.6	1.8%
1047MW101	193108-001	Water	Alkalinity, Total as CaCO3	33	DUP0301072A	193108-006	32	3.1%
1047MW101	193108-001	Water	Sulfide	ND	DUP0301072A	193108-006	ND	NA
1047MW101	193108-001	Water	Total Dissolved Solids	ND<10	DUP0301072A	193108-006	88	**>+/- RL**
1349MW01	193108-007	Water	All VOCs	ND	DUP0301073A	193108-010	ND	NA

Table 3
Summary of Field Duplicates
First Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	Duplicate Sample ID	Laboratory ID	Duplicate Results*	RPD
1349MW01	193108-007	Water	Gasoline C7-C12	ND	DUP0301073A	193108-010	ND	NA
1349MW01	193108-007	Water	Diesel C12-C24	ND	DUP0301073A	193108-010	ND	NA
1349MW01	193108-007	Water	Fuel Oil C24-C36	ND	DUP0301073A	193108-010	ND	NA
1349MW01	193108-007	Water	All pesticides	ND	DUP0301073A	193108-010	ND	NA
1349MW01	193108-007	Water	Fluoranthene	0.02	DUP0301073A	193108-010	ND<0.39	NC
1349MW01	193108-007	Water	All other PAHs	ND	DUP0301073A	193108-010	ND	NA
1349MW01	193108-007	Water	Barium, dissolved	32	DUP0301073A	193108-010	31	3.2%
1349MW01	193108-007	Water	Cadmium, dissolved	1.5	DUP0301073A	193108-010	1.4	6.9%
1349MW01	193108-007	Water	Calcium, dissolved	110000	DUP0301073A	193108-010	110000	0%
1349MW01	193108-007	Water	Copper, dissolved	11	DUP0301073A	193108-010	1.4	**155%**
1349MW01	193108-007	Water	Iron, dissolved	110	DUP0301073A	193108-010	ND<100	NC
1349MW01	193108-007	Water	Magnesium, dissolved	230000	DUP0301073A	193108-010	210000	9.1%
1349MW01	193108-007	Water	Potassium, dissolved	2000	DUP0301073A	193108-010	2000	0%
1349MW01	193108-007	Water	Sodium, dissolved	250000	DUP0301073A	193108-010	230000	8.3%
1349MW01	193108-007	Water	Zinc, dissolved	25	DUP0301073A	193108-010	25	0%
1349MW01	193108-007	Water	All other metals	ND	DUP0301073A	193108-010	ND	NA
1349MW01	193108-007	Water	Chloride	860	DUP0301073A	193108-010	840	2.4%
1349MW01	193108-007	Water	Fluoride	ND	DUP0301073A	193108-010	ND	NA
1349MW01	193108-007	Water	Nitrogen, Nitrate	1.6	DUP0301073A	193108-010	1.6	0%
1349MW01	193108-007	Water	Nitrogen, Nitrite	ND	DUP0301073A	193108-010	ND	NA
1349MW01	193108-007	Water	Sulfate	280	DUP0301073A	193108-010	270	3.6%
1349MW01	193108-007	Water	Alkalinity, Total as CaCO3	290	DUP0301073A	193108-010	280	3.5%
1349MW01	193108-007	Water	Total Dissolved Solids	1810	DUP0301073A	193108-010	1860	-2.7%
1349MW100	193108-008	Water	Benzene	29	DUP0301073B	193108-011	28	3.5%
1349MW100	193108-008	Water	Xylene (total)	1.4	DUP0301073B	193108-011	1.5	-6.9%
1349MW100	193108-008	Water	All other VOCs	ND	DUP0301073B	193108-011	ND	NA
1349MW100	193108-008	Water	Gasoline C7-C12	1200	DUP0301073B	193108-011	620	**64%**
1349MW100	193108-008	Water	Diesel C12-C24	15000	DUP0301073B	193108-011	15000	0%
1349MW100	193108-008	Water	Fuel Oil C24-C36	ND<300	DUP0301073B	193108-011	670	**>+/- RL**
1349MW100	193108-008	Water	gamma-BHC	1.7	DUP0301073B	193108-011	1.7	0%
1349MW100	193108-008	Water	Heptachlor	1	DUP0301073B	193108-011	0.9	11%
1349MW100	193108-008	Water	alpha-Chlordane	0.08	DUP0301073B	193108-011	0.06	29%
1349MW100	193108-008	Water	gamma-Chlordane	ND<0.05	DUP0301073B	193108-011	0.5	**>+/- RL**
1349MW100	193108-008	Water	All other pesticides	ND	DUP0301073B	193108-011	ND	NA
1349MW100	193108-008	Water	All PCBs	ND	DUP0301073B	193108-011	ND	NA
1349MW100	193108-008	Water	Acenaphthene	ND<0.97	DUP0301073B	193108-011	3.8	**>+/- RL**

Table 3
Summary of Field Duplicates
First Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	Duplicate Sample ID	Laboratory ID	Duplicate Results*	RPD
1349MW100	193108-008	Water	Fluorene	16	DUP0301073B	193108-011	11	37%
1349MW100	193108-008	Water	Phenanthrene	25	DUP0301073B	193108-011	15	50%
1349MW100	193108-008	Water	Anthracene	1.2	DUP0301073B	193108-011	0.63	**62%**
1349MW100	193108-008	Water	Fluoranthene	7	DUP0301073B	193108-011	3.9	**57%**
1349MW100	193108-008	Water	Pyrene	2.9	DUP0301073B	193108-011	1.3	**76%**
1349MW100	193108-008	Water	Benzo(a)anthracene	1.9	DUP0301073B	193108-011	ND<0.1	**>+/- RL**
1349MW100	193108-008	Water	Chrysene	1.7	DUP0301073B	193108-011	0.85	**67%**
1349MW100	193108-008	Water	Benzo(b)fluoranthene	0.21	DUP0301073B	193108-011	ND<0.2	NC
1349MW100	193108-008	Water	Benzo(k)fluoranthene	0.14	DUP0301073B	193108-011	ND<0.1	NC
1349MW100	193108-008	Water	All other PAHs	ND	DUP0301073B	193108-011	ND	NA
1349MW100	193108-008	Water	Arsenic, dissolved	7.5	DUP0301073B	193108-011	7.8	-3.9%
1349MW100	193108-008	Water	Barium, dissolved	730	DUP0301073B	193108-011	660	10%
1349MW100	193108-008	Water	Calcium, dissolved	150000	DUP0301073B	193108-011	130000	14%
1349MW100	193108-008	Water	Iron, dissolved	33000	DUP0301073B	193108-011	31000	6.3%
1349MW100	193108-008	Water	Magnesium, dissolved	200000	DUP0301073B	193108-011	180000	11%
1349MW100	193108-008	Water	Manganese, dissolved	15000	DUP0301073B	193108-011	14000	6.9%
1349MW100	193108-008	Water	Potassium, dissolved	2200	DUP0301073B	193108-011	2100	4.7%
1349MW100	193108-008	Water	Sodium, dissolved	400000	DUP0301073B	193108-011	360000	11%
1349MW100	193108-008	Water	All other metals	ND	DUP0301073B	193108-011	ND	NA
1349MW100	193108-008	Water	Chloride	820	DUP0301073B	193108-011	820	0%
1349MW100	193108-008	Water	Fluoride	0.32	DUP0301073B	193108-011	0.26	21%
1349MW100	193108-008	Water	Nitrogen, Nitrate	ND	DUP0301073B	193108-011	ND	NA
1349MW100	193108-008	Water	Nitrogen, Nitrite	ND	DUP0301073B	193108-011	ND	NA
1349MW100	193108-008	Water	Sulfate	0.54	DUP0301073B	193108-011	0.59	-8.8%
1349MW100	193108-008	Water	Alkalinity, Total as CaCO3	1000	DUP0301073B	193108-011	980	2.0%
1349MW100	193108-008	Water	Total Dissolved Solids	2110	DUP0301073B	193108-011	2070	1.9%
DAEGW104	193108-023	Water	All VOCs	ND	DUP0302071A	193108-027	ND	NA
DAEGW104	193108-023	Water	Gasoline C7-C12	ND	DUP0302071A	193108-027	ND	NA
DAEGW104	193108-023	Water	Diesel C12-C24	ND	DUP0302071A	193108-027	ND	NA
DAEGW104	193108-023	Water	Fuel Oil C24-C36	ND	DUP0302071A	193108-027	ND	NA
DAEGW104	193108-023	Water	All pesticides	ND	DUP0302071A	193108-027	ND	NA
DAEGW104	193108-023	Water	All PCBs	ND	DUP0302071A	193108-027	ND	NA
DAEGW104	193108-023	Water	All PAHs	ND	DUP0302071A	193108-027	ND	NA
DAEGW104	193108-023	Water	Hardness as CaCO3	370	DUP0302071A	193108-027	330	11%
DAEGW104	193108-023	Water	Barium, dissolved	77	DUP0302071A	193108-027	76	1.3%
DAEGW104	193108-023	Water	Calcium, dissolved	45000	DUP0302071A	193108-027	45000	0%

Table 3
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First Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	Duplicate Sample ID	Laboratory ID	Duplicate Results*	RPD
DAEGW104	193108-023	Water	Magnesium, dissolved	49000	DUP0302071A	193108-027	48000	2.1%
DAEGW104	193108-023	Water	Manganese, dissolved	510	DUP0302071A	193108-027	520	-1.9%
DAEGW104	193108-023	Water	Molybdenum, dissolved	ND	DUP0302071A	193108-027	ND	NA
DAEGW104	193108-023	Water	Potassium, dissolved	1200	DUP0302071A	193108-027	1300	-8.0%
DAEGW104	193108-023	Water	Sodium, dissolved	38000	DUP0302071A	193108-027	38000	0%
DAEGW104	193108-023	Water	All other metals	ND	DUP0302071A	193108-027	ND	NA
DAEGW104	193108-023	Water	Chloride	79	DUP0302071A	193108-027	78	1.3%
DAEGW104	193108-023	Water	Fluoride	0.27	DUP0302071A	193108-027	0.29	-7.1%
DAEGW104	193108-023	Water	Nitrogen, Nitrate	ND	DUP0302071A	193108-027	ND	NA
DAEGW104	193108-023	Water	Nitrogen, Nitrite	ND	DUP0302071A	193108-027	ND	NA
DAEGW104	193108-023	Water	Sulfate	14	DUP0302071A	193108-027	13	7.4%
DAEGW104	193108-023	Water	Alkalinity, Total as CaCO3	280	DUP0302071A	193108-027	290	-3.5%
DAEGW104	193108-023	Water	MBAS	ND	DUP0302071A	193108-027	ND	NA
DAEGW104	193108-023	Water	Total Dissolved Solids	410	DUP0302071A	193108-027	440	-7.1%
979GW115	193217-004	Water	cis-1,2-Dichloroethene	1.5	DUP0306071A	193217-007	1.5	0%
979GW115	193217-004	Water	All other VOCs	ND	DUP0306071A	193217-007	ND	NA
979GW115	193217-004	Water	Gasoline C7-C12	ND	DUP0306071A	193217-007	ND	NA
979GW115	193217-004	Water	Diesel C12-C24	ND	DUP0306071A	193217-007	ND	NA
979GW115	193217-004	Water	Fuel Oil C24-C36	ND	DUP0306071A	193217-007	ND	NA
979GW116	193217-005	Water	trans-1,2-Dichloroethene	2.2	DUP0306071B	193217-008	3.4	-43%
979GW116	193217-005	Water	cis-1,2-Dichloroethene	37	DUP0306071B	193217-008	38	-2.7%
979GW116	193217-005	Water	All other VOCs	ND	DUP0306071B	193217-008	ND	NA
979GW116	193217-005	Water	Gasoline C7-C12	ND	DUP0306071B	193217-008	ND	NA
979GW116	193217-005	Water	Diesel C12-C24	ND	DUP0306071B	193217-008	ND	NA
979GW116	193217-005	Water	Fuel Oil C24-C36	ND	DUP0306071B	193217-008	ND	NA
NKGW02	193217-011	Water	All VOCs	ND	DUP0306071C	193217-012	ND	NA
NKGW02	193217-011	Water	N-Nitrosodimethylamine	0.0007	DUP0306071C	193217-012	0.0008	-13%
NKGW02	193217-011	Water	Gasoline C7-C12	ND	DUP0306071C	193217-012	ND	NA
NKGW02	193217-011	Water	Diesel C12-C24	ND	DUP0306071C	193217-012	ND	NA
NKGW02	193217-011	Water	Fuel Oil C24-C36	ND	DUP0306071C	193217-012	ND	NA
NKGW02	193217-011	Water	Barium, dissolved	34	DUP0306071C	193217-012	35	-2.9%
NKGW02	193217-011	Water	Calcium, dissolved	11000	DUP0306071C	193217-012	11000	0%
NKGW02	193217-011	Water	Copper, dissolved	ND<1.0	DUP0306071C	193217-012	2.4	**>+/- RL**
NKGW02	193217-011	Water	Magnesium, dissolved	20000	DUP0306071C	193217-012	20000	0%
NKGW02	193217-011	Water	Sodium, dissolved	36000	DUP0306071C	193217-012	38000	-5.4%
NKGW02	193217-011	Water	Zinc, dissolved	ND<20	DUP0306071C	193217-012	20	NC

Table 3
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First Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	Duplicate Sample ID	Laboratory ID	Duplicate Results*	RPD
NKGW02	193217-011	Water	All other metals	ND	DUP0306071C	193217-012	ND	NA
NKGW02	193217-011	Water	Cyanide	ND	DUP0306071C	193217-012	ND	NA
NKGW02	193217-011	Water	Total Dissolved Solids	240	DUP0306071C	193217-012	200	18%
BHWGW04	193217-021	Water	All VOCs	ND	DUP0306073A	193217-024	ND	NA
BHWGW04	193217-021	Water	Antimony, dissolved	2.2	DUP0306073A	193217-024	ND<1.0	>+/- RL
BHWGW04	193217-021	Water	Barium, dissolved	40	DUP0306073A	193217-024	41	-2.5%
BHWGW04	193217-021	Water	Calcium, dissolved	17000	DUP0306073A	193217-024	17000	0%
BHWGW04	193217-021	Water	Copper, dissolved	2.5	DUP0306073A	193217-024	16	-146%
BHWGW04	193217-021	Water	Magnesium, dissolved	46000	DUP0306073A	193217-024	47000	-2.2%
BHWGW04	193217-021	Water	Sodium, dissolved	120000	DUP0306073A	193217-024	130000	-8.0%
BHWGW04	193217-021	Water	Vanadium, dissolved	11	DUP0306073A	193217-024	10	9.5%
BHWGW04	193217-021	Water	All other metals	ND	DUP0306073A	193217-024	ND	NA
BHWGW04	193217-021	Water	Chloride	89	DUP0306073A	193217-024	90	-1.1%
BHWGW04	193217-021	Water	Fluoride	ND	DUP0306073A	193217-024	ND	NA
BHWGW04	193217-021	Water	Nitrogen, Nitrate	4.5	DUP0306073A	193217-024	4.5	0%
BHWGW04	193217-021	Water	Nitrogen, Nitrite	ND	DUP0306073A	193217-024	ND	NA
BHWGW04	193217-021	Water	Sulfate	60	DUP0306073A	193217-024	60	0%
BHWGW04	193217-021	Water	Alkalinity, Total as CaCO3	330	DUP0306073A	193217-024	320	3.1%
1221GW104	193262-001	Water	Barium, dissolved	30	DUP0307073B	193262-006	33	-9.5%
1221GW104	193262-001	Water	Calcium, dissolved	45000	DUP0307073B	193262-006	45000	0%
1221GW104	193262-001	Water	Chromium, dissolved	ND<10	DUP0307073B	193262-006	10	NC
1221GW104	193262-001	Water	Magnesium, dissolved	89000	DUP0307073B	193262-006	90000	-1.1%
1221GW104	193262-001	Water	Manganese, dissolved	70	DUP0307073B	193262-006	71	-1.4%
1221GW104	193262-001	Water	Potassium, dissolved	1500	DUP0307073B	193262-006	1400	6.9%
1221GW104	193262-001	Water	Sodium, dissolved	60000	DUP0307073B	193262-006	60000	0%
1221GW104	193262-001	Water	All other metals	ND	DUP0307073B	193262-006	ND	NA
1221GW104	193262-001	Water	Chloride	64	DUP0307073B	193262-006	63	1.6%
1221GW104	193262-001	Water	Fluoride	ND	DUP0307073B	193262-006	ND	NA
1221GW104	193262-001	Water	Nitrogen, Nitrate	0.44	DUP0307073B	193262-006	0.42	4.7%
1221GW104	193262-001	Water	Nitrogen, Nitrite	ND	DUP0307073B	193262-006	ND	NA
1221GW104	193262-001	Water	Sulfate	69	DUP0307073B	193262-006	70	-1.4%
1221GW104	193262-001	Water	Alkalinity, Total as CaCO3	490	DUP0307073B	193262-006	470	4.2%
LF08GW04	193262-002	Water	All VOCs	ND	DUP0307073A	193262-007	ND	NA
LF08GW04	193262-002	Water	All pesticides	ND	DUP0307073A	193262-007	ND	NA
LF08GW04	193262-002	Water	All PCBs	ND	DUP0307073A	193262-007	ND	NA
LF08GW04	193262-002	Water	All PAHs	ND	DUP0307073A	193262-007	ND	NA

Table 3
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First Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	Duplicate Sample ID	Laboratory ID	Duplicate Results*	RPD
LF08GW04	193262-002	Water	Antimony, dissolved	2	DUP0307073A	193262-007	ND<1.0	NC
LF08GW04	193262-002	Water	Barium, dissolved	36	DUP0307073A	193262-007	36	0%
LF08GW04	193262-002	Water	Calcium, dissolved	36000	DUP0307073A	193262-007	36000	0%
LF08GW04	193262-002	Water	Iron, dissolved	110	DUP0307073A	193262-007	ND<100	NC
LF08GW04	193262-002	Water	Magnesium, dissolved	17000	DUP0307073A	193262-007	17000	0%
LF08GW04	193262-002	Water	Potassium, dissolved	2900	DUP0307073A	193262-007	3000	-3.4%
LF08GW04	193262-002	Water	Sodium, dissolved	29000	DUP0307073A	193262-007	30000	-3.4%
LF08GW04	193262-002	Water	All other metals	ND	DUP0307073A	193262-007	ND	NA
LF08GW04	193262-002	Water	Chloride	46	DUP0307073A	193262-007	45	2.2%
LF08GW04	193262-002	Water	Fluoride	ND	DUP0307073A	193262-007	ND	NA
LF08GW04	193262-002	Water	Nitrogen, Nitrate	6.5	DUP0307073A	193262-007	6.4	1.6%
LF08GW04	193262-002	Water	Nitrogen, Nitrite	ND	DUP0307073A	193262-007	ND	NA
LF08GW04	193262-002	Water	Sulfate	25	DUP0307073A	193262-007	25	0%
LF08GW04	193262-002	Water	Alkalinity, Total as CaCO3	130	DUP0307073A	193262-007	120	8.0%
LF08GW04	193262-002	Water	Cyanide	ND	DUP0307073A	193262-007	ND	NA
LF08GW04	193262-002	Water	Sulfide	ND	DUP0307073A	193262-007	ND	NA
LF08GW04	193262-002	Water	Total Dissolved Solids	290	DUP0307073A	193262-007	270	7.1%

*Units for organic and metals analyses are ug/L; units for general chemistry analyses are mg/L.

RL: Reporting limit

VOCs: Volatile Organic Compounds

PCBs: Polychlorinated Biphenyls

PAHs: Polynuclear Aromatic Hydrocarbons

MBAS: Methylene Blue Active Substances (aka Surfactants)

ND: Not detected

NC: Not calculated. The absolute difference between the sample result and the duplicate sample result is less than the reporting limit.

N/A: Not analyzed

NA: Not applicable. Calculation of the relative percent difference between the sample result and the duplicate sample result is not applicable.

Table 4
Summary of QC Split Duplicates
First Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	QC Split Sample ID	Laboratory ID	Duplicate Results*	RPD
LF6GW105	193027-001	Water	Arsenic, dissolved	ND<5	LF6GW105CL	K0701586-001	7	NC
LF6GW105	193027-001	Water	Barium, dissolved	51	LF6GW105CL	K0701586-001	48.7	4.6%
LF6GW105	193027-001	Water	Cadmium, dissolved	ND<1	LF6GW105CL	K0701586-001	0.02	NC
LF6GW105	193027-001	Water	Calcium, dissolved	39000	LF6GW105CL	K0701586-001	36900	5.5%
LF6GW105	193027-001	Water	Chromium, dissolved	30	LF6GW105CL	K0701586-001	30.6	-2.0%
LF6GW105	193027-001	Water	Cobalt, dissolved	ND<10	LF6GW105CL	K0701586-001	0.59	NC
LF6GW105	193027-001	Water	Copper, dissolved	ND<1	LF6GW105CL	K0701586-001	1.3	NC
LF6GW105	193027-001	Water	Lead, dissolved	ND<3	LF6GW105CL	K0701586-001	0.04	NC
LF6GW105	193027-001	Water	Magnesium, dissolved	62000	LF6GW105CL	K0701586-001	60500	2.4%
LF6GW105	193027-001	Water	Nickel, dissolved	ND<20	LF6GW105CL	K0701586-001	7.9	NC
LF6GW105	193027-001	Water	Sodium, dissolved	74000	LF6GW105CL	K0701586-001	81300	-9.4%
LF6GW105	193027-001	Water	All other metals	ND	LF6GW105CL	K0701586-001	ND	NA
LF6GW105	193027-001	Water	Chloride	87	LF6GW105CL	K0701586-001	80	8.4%
LF6GW105	193027-001	Water	Fluoride	ND	LF6GW105CL	K0701586-001	ND	NA
LF6GW105	193027-001	Water	Nitrogen, Nitrate	4.7	LF6GW105CL	K0701586-001	4.7	0%
LF6GW105	193027-001	Water	Nitrogen, Nitrite	ND	LF6GW105CL	K0701586-001	ND	NA
LF6GW105	193027-001	Water	Sulfate	100	LF6GW105CL	K0701586-001	99.7	0.3%
LF6GW105	193027-001	Water	Alkalinity, Total as CaCO3	320	LF6GW105CL	K0701586-001	288	11%
LF6GW105	193027-001	Water	Sulfide	ND	LF6GW105CL	K0701586-001	ND	NA
LF6GW105	193027-001	Water	Total Dissolved Solids	610	LF6GW105CL	K0701586-001	610	0%
231GW09	193027-003	Water	Arsenic, dissolved	ND<5	231GW09CL	K0701586-002	4.7	NC
231GW09	193027-003	Water	Barium, dissolved	53	231GW09CL	K0701586-002	55.5	-4.6%
231GW09	193027-003	Water	Cadmium, dissolved	ND<1	231GW09CL	K0701586-002	0.09	NC
231GW09	193027-003	Water	Calcium, dissolved	28000	231GW09CL	K0701586-002	26200	6.6%
231GW09	193027-003	Water	Chromium, dissolved	24	231GW09CL	K0701586-002	23	4.3%
231GW09	193027-003	Water	Cobalt, dissolved	ND<10	231GW09CL	K0701586-002	0.39	NC
231GW09	193027-003	Water	Copper, dissolved	ND<1	231GW09CL	K0701586-002	1	NC
231GW09	193027-003	Water	Magnesium, dissolved	47000	231GW09CL	K0701586-002	45200	3.9%
231GW09	193027-003	Water	Nickel, dissolved	ND<20	231GW09CL	K0701586-002	17.4	NC
231GW09	193027-003	Water	Sodium, dissolved	68000	231GW09CL	K0701586-002	73300	-7.5%
231GW09	193027-003	Water	All other metals	ND	231GW09CL	K0701586-002	ND	NA

Table 4
Summary of QC Split Duplicates
First Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	QC Split Sample ID	Laboratory ID	Duplicate Results*	RPD
231GW09	193027-003	Water	Chloride	38	231GW09CL	K0701586-002	36.8	3.2%
231GW09	193027-003	Water	Fluoride	ND	231GW09CL	K0701586-002	ND	NA
231GW09	193027-003	Water	Nitrogen, Nitrate	14	231GW09CL	K0701586-002	15.5	-10%
231GW09	193027-003	Water	Nitrogen, Nitrite	ND	231GW09CL	K0701586-002	ND	NA
231GW09	193027-003	Water	Sulfate	67	231GW09CL	K0701586-002	62.4	7.1%
231GW09	193027-003	Water	Alkalinity, Total as CaCO3	240	231GW09CL	K0701586-002	227	5.6%
231GW09	193027-003	Water	Sulfide	ND	231GW09CL	K0701586-002	ND	NA
231GW09	193027-003	Water	Total Dissolved Solids	510	231GW09CL	K0701586-002	500	2.0%
1047MW101	193108-001	Water	All VOCs	ND	1047MW101CL	K0701647-001	ND	NA
1047MW101	193108-001	Water	Gasoline C7-C12	ND	1047MW101CL	K0701647-001	ND	NA
1047MW101	193108-001	Water	Stoddard Solvent C7-C12	ND	1047MW101CL	K0701647-001	N/A	NA
1047MW101	193108-001	Water	Antimony, dissolved	ND<1	1047MW101CL	K0701647-001	0.86	NC
1047MW101	193108-001	Water	Arsenic, dissolved	ND<5	1047MW101CL	K0701647-001	1.1	NC
1047MW101	193108-001	Water	Calcium, dissolved	8000	1047MW101CL	K0701647-001	7340	8.6%
1047MW101	193108-001	Water	Copper, dissolved	ND<1	1047MW101CL	K0701647-001	1.6	NC
1047MW101	193108-001	Water	Lead, dissolved	ND<3	1047MW101CL	K0701647-001	0.05	NC
1047MW101	193108-001	Water	Magnesium, dissolved	6800	1047MW101CL	K0701647-001	6410	5.9%
1047MW101	193108-001	Water	Nickel, dissolved	ND<20	1047MW101CL	K0701647-001	1.7	NC
1047MW101	193108-001	Water	Potassium, dissolved	1400	1047MW101CL	K0701647-001	ND<2000	NC
1047MW101	193108-001	Water	Sodium, dissolved	7100	1047MW101CL	K0701647-001	6970	1.8%
1047MW101	193108-001	Water	All other metals	ND	1047MW101CL	K0701647-001	ND	NA
1047MW101	193108-001	Water	Chloride	11	1047MW101CL	K0701647-001	11.2	-1.8%
1047MW101	193108-001	Water	Fluoride	0.1	1047MW101CL	K0701647-001	ND<0.2	NC
1047MW101	193108-001	Water	Nitrogen, Nitrate	0.27	1047MW101CL	K0701647-001	0.28	-3.6%
1047MW101	193108-001	Water	Nitrogen, Nitrite	ND	1047MW101CL	K0701647-001	ND	NA
1047MW101	193108-001	Water	Sulfate	5.7	1047MW101CL	K0701647-001	6.6	-15%
1047MW101	193108-001	Water	Alkalinity, Total as CaCO3	33	1047MW101CL	K0701647-001	38	-14%
1047MW101	193108-001	Water	Sulfide	ND	1047MW101CL	K0701647-001	ND	NA
1047MW101	193108-001	Water	Total Dissolved Solids	ND<10	1047MW101CL	K0701647-001	52	**>+/-RL**
1349MW01	193108-007	Water	All VOCs	ND	1349MW01CL	K0701647-002	ND	NA
1349MW01	193108-007	Water	Gasoline C7-C12	ND	1349MW01CL	K0701647-002	ND	NA

Table 4
Summary of QC Split Duplicates
First Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	QC Split Sample ID	Laboratory ID	Duplicate Results*	RPD
1349MW01	193108-007	Water	Diesel C12-C24	ND	1349MW01CL	K0701647-002	ND	NA
1349MW01	193108-007	Water	Fuel Oil C24-C36	ND	1349MW01CL	K0701647-002	ND	NA
1349MW01	193108-007	Water	All pesticides	ND	1349MW01CL	K0701647-002	ND	NA
1349MW01	193108-007	Water	Fluoranthene	0.02	1349MW01CL	K0701647-002	ND<0.2	NC
1349MW01	193108-007	Water	All other PAHs	ND	1349MW01CL	K0701647-002	ND	NA
1349MW01	193108-007	Water	Antimony, dissolved	ND<1	1349MW01CL	K0701647-002	0.07	NC
1349MW01	193108-007	Water	Arsenic, dissolved	ND<5	1349MW01CL	K0701647-002	7	NC
1349MW01	193108-007	Water	Barium, dissolved	32	1349MW01CL	K0701647-002	29.3	8.8%
1349MW01	193108-007	Water	Cadmium, dissolved	1.5	1349MW01CL	K0701647-002	0.82	NC
1349MW01	193108-007	Water	Calcium, dissolved	110000	1349MW01CL	K0701647-002	113000	-2.7%
1349MW01	193108-007	Water	Cobalt, dissolved	ND<10	1349MW01CL	K0701647-002	0.43	NC
1349MW01	193108-007	Water	Copper, dissolved	11	1349MW01CL	K0701647-002	1.4	**155%**
1349MW01	193108-007	Water	Iron, dissolved	110	1349MW01CL	K0701647-002	ND<20	NC
1349MW01	193108-007	Water	Lead, dissolved	ND<3	1349MW01CL	K0701647-002	0.2	NC
1349MW01	193108-007	Water	Magnesium, dissolved	230000	1349MW01CL	K0701647-002	233000	-1.3%
1349MW01	193108-007	Water	Nickel, dissolved	ND<20	1349MW01CL	K0701647-002	13.8	NC
1349MW01	193108-007	Water	Potassium, dissolved	2000	1349MW01CL	K0701647-002	ND<2000	NC
1349MW01	193108-007	Water	Silver, dissolved	ND<1	1349MW01CL	K0701647-002	0.13	NC
1349MW01	193108-007	Water	Sodium, dissolved	250000	1349MW01CL	K0701647-002	270000	-7.7%
1349MW01	193108-007	Water	Zinc, dissolved	25	1349MW01CL	K0701647-002	689	**-186%**
1349MW01	193108-007	Water	All other metals	ND	1349MW01CL	K0701647-002	ND	NA
1349MW01	193108-007	Water	Chloride	860	1349MW01CL	K0701647-002	889	-3.3%
1349MW01	193108-007	Water	Fluoride	ND<0.1	1349MW01CL	K0701647-002	0.3	**>+/-RL**
1349MW01	193108-007	Water	Nitrogen, Nitrate	1.6	1349MW01CL	K0701647-002	1.4	13%
1349MW01	193108-007	Water	Nitrogen, Nitrite	ND	1349MW01CL	K0701647-002	ND	NA
1349MW01	193108-007	Water	Sulfate	280	1349MW01CL	K0701647-002	284	-1.4%
1349MW01	193108-007	Water	Alkalinity, Total as CaCO3	290	1349MW01CL	K0701647-002	260	11%
1349MW01	193108-007	Water	Total Dissolved Solids	1810	1349MW01CL	K0701647-002	1800	0.6%
DAEGW104	193108-023	Water	All VOCs	ND	DAEGW104CL	K0701703-001	ND	NA
DAEGW104	193108-023	Water	Gasoline C7-C12	ND	DAEGW104CL	K0701703-001	ND	NA
DAEGW104	193108-023	Water	Diesel C12-C24	ND	DAEGW104CL	K0701703-001	ND	NA

Table 4
Summary of QC Split Duplicates
First Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	QC Split Sample ID	Laboratory ID	Duplicate Results*	RPD
DAEGW104	193108-023	Water	Fuel Oil C24-C36	ND	DAEGW104CL	K0701703-001	ND	NA
DAEGW104	193108-023	Water	All pesticides	ND	DAEGW104CL	K0701703-001	ND	NA
DAEGW104	193108-023	Water	All PCBs	ND	DAEGW104CL	K0701703-001	ND	NA
DAEGW104	193108-023	Water	All PAHs	ND	DAEGW104CL	K0701703-001	ND	NA
DAEGW104	193108-023	Water	Hardness as CaCO3	370	DAEGW104CL	K0701703-001	348	6.1%
DAEGW104	193108-023	Water	Arsenic, dissolved	ND<5	DAEGW104CL	K0701703-001	1	NC
DAEGW104	193108-023	Water	Barium, dissolved	77	DAEGW104CL	K0701703-001	80.3	-4.2%
DAEGW104	193108-023	Water	Cadmium, dissolved	ND<1	DAEGW104CL	K0701703-001	0.02	NC
DAEGW104	193108-023	Water	Calcium, dissolved	45000	DAEGW104CL	K0701703-001	47500	-5.4%
DAEGW104	193108-023	Water	Cobalt, dissolved	ND<10	DAEGW104CL	K0701703-001	0.29	NC
DAEGW104	193108-023	Water	Copper, dissolved	ND<1	DAEGW104CL	K0701703-001	0.4	NC
DAEGW104	193108-023	Water	Magnesium, dissolved	49000	DAEGW104CL	K0701703-001	55100	-12%
DAEGW104	193108-023	Water	Manganese, dissolved	510	DAEGW104CL	K0701703-001	538	-5.3%
DAEGW104	193108-023	Water	Molybdenum, dissolved	ND	DAEGW104CL	K0701703-001	2.34	NC
DAEGW104	193108-023	Water	Nickel, dissolved	ND<20	DAEGW104CL	K0701703-001	2.8	NC
DAEGW104	193108-023	Water	Potassium, dissolved	1200	DAEGW104CL	K0701703-001	ND<2000	NC
DAEGW104	193108-023	Water	Sodium, dissolved	38000	DAEGW104CL	K0701703-001	44700	-16%
DAEGW104	193108-023	Water	All other metals	ND	DAEGW104CL	K0701703-001	ND	NA
DAEGW104	193108-023	Water	Chloride	79	DAEGW104CL	K0701703-001	79	0%
DAEGW104	193108-023	Water	Fluoride	0.27	DAEGW104CL	K0701703-001	0.3	-11%
DAEGW104	193108-023	Water	Nitrogen, Nitrate	ND	DAEGW104CL	K0701703-001	ND	NA
DAEGW104	193108-023	Water	Nitrogen, Nitrite	ND	DAEGW104CL	K0701703-001	ND	NA
DAEGW104	193108-023	Water	Sulfate	14	DAEGW104CL	K0701703-001	14.5	-3.5%
DAEGW104	193108-023	Water	Alkalinity, Total as CaCO3	280	DAEGW104CL	K0701703-001	272	2.9%
DAEGW104	193108-023	Water	MBAS	ND	DAEGW104CL	K0701703-001	ND	NA
DAEGW104	193108-023	Water	Total Dissolved Solids	410	DAEGW104CL	K0701703-001	293	33%
979GW115	193217-004	Water	cis-1,2-Dichloroethene	1.5	979GW115CL	K0701816-001	1.8	-18%
979GW115	193217-004	Water	Trichloroethene	ND<0.5	979GW115CL	K0701816-001	0.55	NC
979GW115	193217-004	Water	All other VOCs	ND	979GW115CL	K0701816-001	ND	NA
979GW115	193217-004	Water	Gasoline C7-C12	ND	979GW115CL	K0701816-001	ND	NA
979GW115	193217-004	Water	Diesel C12-C24	ND	979GW115CL	K0701816-001	ND	NA

Table 4
Summary of QC Split Duplicates
First Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	QC Split Sample ID	Laboratory ID	Duplicate Results*	RPD
979GW115	193217-004	Water	Fuel Oil C24-C36	ND	979GW115CL	K0701816-001	ND	NA
NKGW02	193217-011	Water	All VOCs	ND	NKGW02CL	K0701816-002	ND	NA
NKGW02	193217-011	Water	N-Nitrosodimethylamine	0.0007	NKGW02CL	K0701816-002	ND<0.002	NC
NKGW02	193217-011	Water	Gasoline C7-C12	ND	NKGW02CL	K0701816-002	ND	NA
NKGW02	193217-011	Water	Diesel C12-C24	ND	NKGW02CL	K0701816-002	ND	NA
NKGW02	193217-011	Water	Fuel Oil C24-C36	ND	NKGW02CL	K0701816-002	ND	NA
NKGW02	193217-011	Water	Antimony, dissolved	ND<1	NKGW02CL	K0701816-002	0.06	NC
NKGW02	193217-011	Water	Barium, dissolved	34	NKGW02CL	K0701816-002	37.5	-10%
NKGW02	193217-011	Water	Cadmium, dissolved	ND<1	NKGW02CL	K0701816-002	0.05	NC
NKGW02	193217-011	Water	Calcium, dissolved	11000	NKGW02CL	K0701816-002	12200	-10%
NKGW02	193217-011	Water	Cobalt, dissolved	ND<10	NKGW02CL	K0701816-002	0.11	NC
NKGW02	193217-011	Water	Copper, dissolved	ND<1	NKGW02CL	K0701816-002	0.5	NC
NKGW02	193217-011	Water	Magnesium, dissolved	20000	NKGW02CL	K0701816-002	19900	0.5%
NKGW02	193217-011	Water	Nickel, dissolved	ND<20	NKGW02CL	K0701816-002	6.3	NC
NKGW02	193217-011	Water	Sodium, dissolved	36000	NKGW02CL	K0701816-002	40800	-13%
NKGW02	193217-011	Water	All other metals	ND	NKGW02CL	K0701816-002	ND	NA
NKGW02	193217-011	Water	Cyanide	ND	NKGW02CL	K0701816-002	ND	NA
NKGW02	193217-011	Water	Total Dissolved Solids	240	NKGW02CL	K0701816-002	247	-2.9%

*Units for organic and metals analyses are ug/L; units for general chemistry analyses are mg/L.
RL: Reporting limit
VOCs: Volatile Organic Compounds
PCBs: Polychlorinated Biphenyls
PAHs: Polynuclear Aromatic Hydrocarbons
ND: Not detected
NC: Not calculated. The absolute difference between the sample result and the duplicate sample result is less than the reporting limit.
N/A: Not analyzed
NA: Not applicable. Calculation of the relative percent difference between the sample result and the duplicate sample result is not applicable.

Second Quarter 2007

TO: Joshua Graber, Treadwell & Rollo, Inc. August 15, 2007

FROM: Donna Breaux, DataVal, Inc. Treadwell & Rollo Project No. 2893.04

DATA VALIDATION SUMMARY REPORT FOR THE SECOND QUARTER 2007 GROUNDWATER MONITORING, THE PRESIDIO OF SAN FRANCISCO, CA

PRIMARY LABORATORY: Curtis & Tompkins, Ltd., Berkeley, CA

QC SPLIT SAMPLE LABORATORY: Columbia Analytical Services, Inc., Kelso, WA

SAMPLING DATES: May 11, June 5 through 8 and 13, 2007

Data validation of Level III laboratory data packages was performed according to the project-specific guidelines. These guidelines were outlined in the Presidio-wide Quality Assurance Project Plan (QAPP), Sampling and Analysis Plan, April, 2001; the U. S. Environmental Protection Agency Contract Laboratory Program National Functional Guidelines for Organic Data Review, October, 1999; the U. S. Environmental Protection Agency Contract Laboratory Program National Functional Guidelines for Low Concentration Organic Data Review, June, 2001; and the U. S. Environmental Protection Agency Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 2004.

The data were reviewed for holding times, surrogate recoveries, laboratory method blanks, laboratory control samples, laboratory duplicate samples, matrix spikes and matrix spike duplicates, GC/MS tunes, performance evaluation mix standards, ICP interference check standards, ICP serial dilutions, initial calibrations, continuing calibration verification standards, internal standards and field QC samples.

The following paragraphs highlight the essential findings of the data validation effort:

I. Volatile Organic Compounds (VOCs) by GC/MS (8260B)

Overall, the data are usable as reported with any added qualifiers. Qualification was required for the reason noted in Section I.

A. Reporting Limits

The laboratory reporting limits for VOCs in water matrix samples met the project required reporting limits, with the following exception:

1. The laboratory reporting limits did not meet the project required reporting limits listed in Table 2-6.8-1 of the QAPP for bromoform, bromomethane, chloroethane, and chloromethane. The laboratory reported 1.0 ug/L for these compounds. The project required reporting limit was 0.5 ug/L.

B. Holding Times

Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples.

G. GC/MS Tunes
All QC criteria were met for the GC/MS tunes associated with the project samples.

H. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

I. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples, with the following exceptions:

1. Qualification was not required for samples with non-detect results associated with high-failing continuing calibration verification (CCV) standards. Such failures were not noted in this report.
2. The 6/12/07 at 13:06 CCV standard analyzed on instrument MSVOA10 had acetone with a percent difference (%D) less than the +/-25%D acceptance criteria at -28%. The non-detect results for acetone in the associated samples were qualified as estimated (UJ).
3. The 6/13/07 at 10:42 CCV standard analyzed on instrument MSVOA08 had bromomethane with a %D less than the +/-25%D acceptance criteria at -47%. The non-detect results for bromomethane in the associated samples were qualified as estimated (UJ).

See Table 2 of this report for a summary of samples qualified for continuing calibration verification percent difference failures.

J. Internal Standards
Internal standard areas and retention times met QC acceptance criteria for all project samples.

II. Total Petroleum Hydrocarbons (TPH) - Gasoline Range (8015B)

Overall, the data are usable as reported. Qualification was not required.

A. Reporting Limits
The laboratory reporting limit for TPH-gasoline in water matrix samples met the project required reporting limit.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples.

G. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples.

III. Total Petroleum Hydrocarbons (TPH) – Diesel/Fuel Oil Range (8015B)

Overall, the data are usable as reported. Qualification was not required.

A. Reporting Limits
The laboratory reporting limits for TPH-diesel and TPH-fuel oil in water matrix samples met the project-required reporting limits.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples.

G. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples.

IV. Aromatic Volatiles by GC (8021B)

Overall, the data are usable as reported. Qualification was not required.

A. Reporting Limits
The laboratory reporting limits for benzene, toluene, ethylbenzene, xylenes and methyl tertiary-butyl ether in water matrix samples met the project-required reporting limits.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
A matrix spike and matrix spike duplicate were not analyzed with the project samples for this analysis.

G. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples.

V. Organochlorine Pesticides (8081A)

Overall, the data are usable as reported with any added qualifiers. Qualification was required for the reason noted in Section C.

A. Reporting Limits
The laboratory reporting limits for pesticides in water matrix samples met the project-required reporting limits.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples, with the following exceptions:

1. Samples which required dilutions of five-fold or greater with failing surrogate recoveries did not require qualification, and were not noted in this report.
2. The percent recoveries for surrogate decachlorobiphenyl (DCB) failed the 65%-135% project acceptance criteria in two project samples. The compounds associated with surrogate DCB (alpha-chlordane, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, dieldrin, endosulfan II, endosulfan sulfate, endrin, endrin ketone, gamma-chlordane, methoxychlor and toxaphene) were non-detect and qualified as estimated (UJ). The following table lists the project samples that were qualified due to these QC failures.

Project Sample Name	Laboratory Sample ID	DCB % Recovery	TCMX % Recovery
BB1PZ100	195247-001	46%	71%
BB1PZ101	195247-002	53%	68%

See Table 2 of this report for a summary of qualifications due to surrogate percent recovery failures.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples.

G. Performance Evaluation Mix (PEM) Check Standards
All PEM check standards met the project degradation criteria of 20% for endrin and 4,4'-DDT.

H. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

I. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples. Data was reported from two columns. Continuing calibration verification (CCV) standards with percent differences (%Ds) that failed criteria on one column did not require qualification of sample results if those results were reported from the column in control. Such failures were not noted in this report.

VI. Polynuclear Aromatic Hydrocarbons (PAHs) by HPLC (8310)

Overall, the data are usable as reported with any added qualifiers. Qualification was required for the reason noted in Section F.

A. Reporting Limits
The laboratory reporting limits for PAHs in water matrix samples met the project required reporting limits, with the following exception:

1. The laboratory reporting limits did not meet the project required reporting limits listed in Table 2-6.12-1 of the QAPP for anthracene and fluoranthene. The laboratory reported 0.5 ug/L for anthracene and 0.4 ug/L for fluoranthene. The project required reporting limit for these compounds was 0.2 ug/L.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples. Surrogates were reported from two wavelengths. Samples with surrogate recoveries that failed criteria at one wavelength did not require qualification if the surrogate recoveries at the alternate wavelength met criteria. Such failures were not noted in this report.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples, with the following exception:

1. The percent recoveries for benzo(a)pyrene were outside the 65%-135% project acceptance criteria in QC samples FM14EX07GW101 (195270-013) MS/MSD at 37%/42%. The non-detect result for benzo(a)pyrene in the parent sample was qualified as estimated (UJ). (QC Batch 126173)

See Table 2 of this report for a summary of qualifications due to matrix spike percent recovery failures.

G. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples.

VII. Total & Dissolved Metals (6020A/7470A)

Overall, the data are usable as reported with any added qualifiers. Qualification was required for the reason noted in Section F.

A. Reporting Limits
The laboratory reporting limits for metals in water matrix samples met the project required reporting limits listed in Tables 2-5.21-1 and 2-5.26-1 of the QAPP.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Blanks
Target analytes were not observed in any laboratory method blanks or field QC blanks associated with the project samples, with the following exceptions:

1. Method blank QC391463 had a detected level of copper at 5 ug/L. The associated project samples were non-detect for copper, and qualification was not required.
2. Equipment blank BHWGW04RBHWGW100 (195270-004) had detected levels of calcium (960 ug/L) and sodium (530 ug/L). The associated samples had calcium and sodium values greater than five times the blank amounts, and qualification was not required.
3. Source blank DW060707A (195279-001) had a detected level of calcium at 720 ug/L. Project sample association with this blank could not be established, and qualification was not required.
4. Source blank DW060807B (195303-030) had a detected level of antimony at 15 ug/L. The associated project samples were non-detect for antimony, and qualification was not required.

D. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

E. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples, with the following exceptions:

1. The percent recoveries for calcium, magnesium and sodium were outside the 75%-125% project acceptance criteria in QC samples LF4GW104 (195241-003) MS and/or MSD. The amounts of calcium, magnesium and sodium present in the parent sample were greater than four times the amounts spiked and qualification was not required. (QC Batch 126087)
2. The percent recovery for calcium was outside the 75%-125% project acceptance criteria in QC sample BB3GW100 (195247-006) MS. The sample was diluted five-fold for calcium analysis and qualification for MS percent recovery failure was not required. (QC Batch 126087)
3. The percent recovery for sodium was outside the 75%-125% project acceptance criteria in QC sample BHWGW01 (195270-007) MS. The amount of calcium present in the parent sample was greater than four times the amount spiked and qualification was not required. (QC Batch 126092)
4. The percent recoveries for sodium were outside the 75%-125% project acceptance criteria in QC samples 231GW13 (195234-003) MS/MSD. The amount of sodium present in the parent sample was greater than

four times the amount spiked and qualification was not required. (QC Batch 126207)

5. The percent recoveries for magnesium and sodium were outside the 75%-125% project acceptance criteria in QC samples BHWGW01 (195270-007) MS and/or MSD. The amounts of magnesium and sodium present in the parent sample were greater than four times the amounts spiked and qualification was not required. (QC Batch 126254)
6. The percent recoveries for magnesium, sodium, thallium and zinc were outside the 75%-125% project acceptance criteria in QC samples HWGW100 (195303-001) MS and/or MSD. The amounts of magnesium and sodium present in the parent sample were greater than four times the amounts spiked and qualification was not required. The sample was diluted five-fold for thallium and zinc and qualification for MS/MSD percent recovery failure was not required. (QC Batch 126310)
7. The percent recoveries for calcium, manganese and sodium were outside the 75%-125% project acceptance criteria in QC sample 231GW19 (195303-018) MSD. The amounts of calcium, manganese and sodium present in the parent sample were greater than four times the amounts spiked and qualification was not required. (QC Batch 126311)

F. ICP Interference Check Standards

All QC criteria were met for the ICP interference check standards associated with the project samples, with the following exceptions:

1. Qualification was not required for samples associated with failing interference check standards if the interferent element concentrations in the samples were below those of the interference check standards. Such failures were not noted in this report.
2. Qualification was not required for samples with non-detect results that were associated with high-failing interference check standards. Such failures were not noted in this report.
3. The 6/9/07 at 00:45 interference check standard solution A analyzed on instrument MET06 had calcium with a percent recovery greater than the 80%-120% project acceptance criteria at 123%. The detected results for calcium in the associated project samples were qualified as estimated with a high bias (J+).
4. The 6/8/07 at 19:23 interference check standard solution A analyzed on instrument MET16 had five metals with percent recoveries less than the 80%-120% project acceptance criteria: aluminum (79%), calcium (79%), magnesium (77%), potassium (78%) and iron (75%). The results for these elements in the associated project samples were qualified as estimated with a low bias (J-/UJ).
5. The 6/9/07 at 00:15 interference check standard solution A analyzed on instrument MET16 had five metals with percent recoveries less than the 80%-120% project acceptance criteria: aluminum (78%), calcium (78%), magnesium (77%), potassium (78%) and iron (75%). The results for

these elements in the associated project samples were qualified as estimated with a low bias (J-/UJ).

See Table 2 of this report for a summary of qualifications due to interference check standard percent recovery failure.

G. ICP Serial Dilution

All QC criteria were met for the ICP serial dilutions associated with the project samples, with the following exceptions:

1. The percent difference (%D) failed the 10% project acceptance criteria for vanadium in the serial dilution of sample LF4GW104 (195241-003) at 124%. The parent sample was diluted ten-fold for vanadium analysis and qualification was not required. (QC Batch 126087)
2. The %Ds failed the 10% project acceptance criteria for calcium and potassium in the serial dilution of sample 231GW20 (195234-001) at 20% and 12%, respectively. The parent sample was diluted ten-fold for calcium and potassium analysis and qualification was not required. (QC Batch 126207)
3. The %D failed the 10% project acceptance criteria for calcium in the serial dilution of sample HWGW100 (195303-001) at 32%. The parent sample was diluted five-fold for calcium analysis and qualification was not required. (QC Batch 126310)
4. The %D failed the 10% project acceptance criteria for barium in the serial dilution of sample 231GW19 (195303-018) at 17%. The parent sample was diluted five-fold for barium analysis and qualification was not required. (QC Batch 126311)

H. Initial and Continuing Calibrations

All initial and continuing calibration verification standards associated with the project samples met QC acceptance criteria. Qualification was not required for samples with non-detect results that were associated with high-failing continuing calibration verification (CCV) standards. Such failures were not noted in this report.

VIII. Various General Chemistry Methods: Total Dissolved Solids (160.1), Anions (300.1), Alkalinity (310.1), Total Cyanide (335.2), Total Sulfide (376.2), Total Phenols (420.1), Total Oil & Grease (1664A) and pH (9040B)

Overall, the data are usable as reported with any added qualifiers. Qualifications were required for the reasons noted in Sections B, C, D, E and F.

A. Reporting Limits

The laboratory reporting limits for the general chemistry methods analyzed met the project required reporting limits listed in the QAPP, with the following exception:

1. The results for fluoride, nitrate-nitrogen and/or nitrite-nitrogen in samples LF4GW103 (195241-002), DUP0605073A (195241-007), HWGW100 (195303-001), 1349MW100 (195270-001), DUP0606073A (195270-002), BB3GW100 (195247-006) and 1213GW101

(195270-016) were reported as non-detect at various sample dilutions. The reporting limits were raised by the dilution factors.

B. Holding Times

Technical holding time criteria were met for all project samples, with the following exception:

1. Samples 231GW20 (195234-001), 231GW09 (195241-004), HWGW100 (195303-001) and 231GW23 (195303-021) were analyzed past the 48-hour analysis holding time for nitrate-nitrogen and nitrite-nitrogen. The sample results were qualified as estimated with a low bias (J-/UJ).

See Table 2 of this report for a summary of qualifications due to missed analysis holding times.

C. Blanks

Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples, with the following exceptions:

1. Equipment blank BHWGW04RBHWGW100 (195270-004) had a detected level of nitrate-nitrogen at 0.08 mg/L. The results for nitrate-nitrogen in the associated samples were changed to non-detect (U) if those values were less than five times the blank amount.
2. Source blank DW060707A (195279-001) had a detected level of total dissolved solids at 44 mg/L. Qualification was not required since total dissolved solids is considered a physical property measurement.

See Table 2 of this report for a summary of qualifications due to blank contamination.

D. Laboratory Control Samples

All QC criteria were met for the laboratory control samples associated with the project samples, with the following exceptions:

1. The percent recovery for nitrate-nitrogen was outside the 90%-110% project acceptance criteria in QC sample QC391316 LCSD at 111%. The detected results for nitrate-nitrogen in the associated samples were qualified as estimated with a high bias (J+). (QC Batch 126059)
2. The percent recoveries for nitrate-nitrogen and sulfate were outside the 90%-110% project acceptance criteria in QC sample QC391418 LCS at 113% and 113%, respectively. The detected results for nitrate-nitrogen and sulfate in the associated samples were qualified as estimated with a high bias (J+). (QC Batch 126083)
3. The percent recovery for nitrate-nitrogen was outside the 90%-110% project acceptance criteria in QC sample QC391490 LCSD at 111%. The detected results for nitrate-nitrogen in the associated samples were qualified as estimated with a high bias (J+). (QC Batch 126098)

See Table 2 of this report for a summary of qualifications due to laboratory control sample percent recovery failure.

E. Matrix Spike/Matrix Spike Duplicate

All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples, with the following exceptions:

1. The percent recoveries for fluoride were outside the 80%-120% project acceptance criteria in QC samples BB3GW100 (195247-006) MS/MSD. The parent sample was diluted two hundred-fold for fluoride analysis and qualification for MS/MSD percent recovery failure was not required. (QC Batch 125982)
2. The percent recoveries for chloride and sulfate were outside the 75%-125% project acceptance criteria in QC samples 195189-001 MS/MSD. The parent sample was from a site unrelated to the project site, and qualification of project samples was not required. (QC Batch 126098)
3. The percent recoveries for sulfide were outside the 75%-125% project acceptance criteria in QC samples 231GW18 (195303-016) MS/MSD at 64%/71%. The results for sulfide in the associated project samples were qualified as estimated with a low bias (J-/UJ). (QC Batch 126293)

See Table 2 of this report for a summary of qualifications due to matrix spike percent recovery failure.

F. Laboratory Duplicate Samples

All QC criteria were met for the laboratory duplicate samples associated with the project samples, with the following exception:

1. The relative percent difference (RPD) for total dissolved solids was outside the 20% project acceptance criteria in the duplicate of sample 231GW20 (195234-001). The detected results for total dissolved solids in the associated samples were qualified as estimated (J). (QC Batch 126214)

See Table 2 of this report for a summary of qualifications due to laboratory duplicate relative percent difference failure.

G. Initial and Continuing Calibrations

All initial and continuing calibration standards associated with the project samples met QC acceptance criteria.

The following paragraphs highlight the essential findings of the data validation effort of the QC split samples:

IX. Volatile Organic Compounds (VOCs) by GC/MS (8260B)

Overall, the data are usable as reported with any added qualifiers. Qualifications were required for the reasons noted in Sections C, H and I.

A. Reporting Limits

The laboratory reporting limits for VOCs in water matrix samples met the project required reporting limits, with the following exception:

1. The laboratory reporting limits did not meet the project required reporting limits listed in Table 2-6.8-1 of the QAPP for bromoform, bromomethane, chloroethane, and chloromethane. The laboratory reported 1.0 ug/L for these compounds. The project required reporting limit was 0.5 ug/L.

B. Holding Times

Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries

Surrogate spike recoveries met QC acceptance criteria for all project samples, with the following exceptions:

1. Samples with non-detect results and high-failing surrogate recoveries did not require qualification, and were not noted in this report.
2. The percent recovery for surrogate toluene-d8 was outside the 88%-110% project acceptance criteria in sample 1349MW100CL (K0704852-002) at 114%. The detected result for benzene in this sample was qualified as estimated with a high bias (J+). Qualification was not required for non-detect results.

See Table 2 of this report for a summary of qualifications due to surrogate percent recovery failure.

D. Blanks

Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples.

E. Laboratory Control Samples

All QC criteria were met for the laboratory control samples associated with the project samples, with the following exception:

1. The percent recoveries were outside the 65%-135% project acceptance criteria in QC sample KWG0706882-3 LCS for 2-chloroethyl vinyl ether (333%), acetone (137%), 2-butanone (154%), 2-hexanone (140%) and 4-methyl-2-pentanone (144%). The results for these compounds in the associated samples were non-detect and qualification was not required. (QC Batch KWG0706882)

F. Matrix Spike/Matrix Spike Duplicate

All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples.

G. GC/MS Tunes

All QC criteria were met for the GC/MS tunes associated with the project samples.

H. Initial Calibration

Initial calibration criteria were met for all calibration standards associated with the project samples, with the following exception:

1. The 5/21/07 water matrix initial calibration analyzed on instrument MS04 had six compounds with average relative response factors (RRFs) less than the 0.05 acceptance criteria: vinyl acetate (0.027), 2-chloroethyl vinyl ether (0.028), acetone (0.025), 2-butanone (0.009), 2-hexanone (0.011) and 4-methyl-2-pentanone (0.013). The non-detect results for these compounds in the associated samples were qualified as rejected (R).

See Table 2 of this report for a summary of qualifications due to initial calibration minimum average relative response factor failures.

I. Continuing Calibration

Continuing calibration criteria were met for all continuing calibration standards associated with the project samples, with the following exceptions:

1. Qualification was not required for samples with non-detect results that were associated with high-failing continuing calibration verification (CCV) standards. Such failures were not noted in this report.
2. The 6/20/07 at 15:02 water matrix CCV standard analyzed on instrument MS04 had five compounds with relative response factors (RRFs) less than the 0.05 acceptance criteria: vinyl acetate (0.039), acetone (0.033), 2-butanone (0.014), 2-hexanone (0.018) and 4-methyl-2-pentanone (0.022). The non-detect results for these compounds in the associated samples were qualified as rejected (R).

See Table 2 of this report for a summary of qualifications due to minimum relative response factor and continuing calibration percent difference failures.

J. Internal Standards

Internal standard areas and retention times met QC acceptance criteria for all project samples.

X. Total Petroleum Hydrocarbons (TPH) - Gasoline Range (8015B)

Overall, the data are usable as reported. Qualification was not required.

A. Reporting Limits
The laboratory reporting limit for TPH-gasoline in water matrix samples met the project-required reporting limit.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples.

G. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples.

XI. Total Petroleum Hydrocarbons (TPH) – Diesel/Fuel Oil Range (8015B)

Overall, the data are usable as reported. Qualification was not required.

A. Reporting Limits
The laboratory reporting limits for TPH-diesel and TPH-fuel oil in water matrix samples met the project-required reporting limits.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
A matrix spike and matrix spike duplicate were not analyzed with the project samples for this analysis.

G. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples.

XII. Organochlorine Pesticides (8081A)

Overall, the data are usable as reported with any added qualifiers. Qualification was required for the reason noted in Section E.

A. Reporting Limits
The laboratory reporting limits for pesticides in water matrix samples met the project-required reporting limits, with the following exception:
1. Sample 1349MW100CL (K0704852-002) was analyzed at a ten-fold dilution due to high levels of non-target components. The reporting limits were raised by the dilution factor, and most sample results were non-detect at the raised reporting limits.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples. Samples which required dilutions of five-fold or greater with failing surrogate recoveries did not require qualification, and were not noted in this report.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples.

E. Laboratory Control Samples

All QC criteria were met for the laboratory control samples associated with the project samples, with the following exception:

1. The percent recoveries for aldrin were outside the 65%-135% project acceptance criteria in QC samples KWG0706602-2 LCS and KWG0706602-3 LCSD at 43% and 45%, respectively. The non-detect result for aldrin in the associated project sample was qualified as estimated (UJ). (QC batch KWG0706602)

See Table 2 of this report for a summary of qualifications due to laboratory control sample percent recovery failure.

F. Matrix Spike/Matrix Spike Duplicate

All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples, with the following exception:

1. The percent recovery for aldrin was outside the 65%-135% project acceptance criteria in QC sample K0704934-001 MS. The parent sample was from a site unrelated to the project site, and qualification of project samples was not required. (QC Batch KWG0706602)

G. Performance Evaluation Mix (PEM) Check Standards

All PEM check standards met the project degradation criteria of 20% for endrin and 4,4'-DDT.

H. Initial Calibration

Initial calibration criteria were met for all calibration standards associated with the project samples.

I. Continuing Calibration

Continuing calibration criteria were met for all continuing calibration standards associated with the project samples, with the following exceptions:

1. Data was reported from two columns. Continuing calibration verification (CCV) standards with percent differences (%Ds) that failed criteria on one column did not require qualification of sample results if those results were reported from the column in control. Such failures were not noted in this report.
2. Qualification was not required for samples with non-detect results associated with high-failing CCV standards. Such failures were not noted in this report.

XIII. Polynuclear Aromatic Hydrocarbons (PAHs) by HPLC (8310)

Overall, the data are usable as reported with any added qualifiers. Qualification was required for the reason noted in Section C.

A. Reporting Limits

The laboratory reporting limits for PAHs in water matrix samples met the project-required reporting limits, with the following exception:

1. Sample 1349MW100CL (K0704852-002) was analyzed at ten-fold and one hundred-fold dilutions for fluoranthene and phenanthrene, respectively, due to interference from target and non-target analytes. The reporting limits were raised by the dilution factors, and the sample results for these compounds were non-detect at the raised reporting limits.

B. Holding Times

Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries

Surrogate spike recoveries met QC acceptance criteria for all project samples, with the following exception:

1. The percent recovery for surrogate p-terphenyl was outside the 65%-135% project acceptance criteria in sample 1349MW100CL (K0704852-002) at 1159%. The detected results for fluorene and anthracene in the sample were qualified as estimated with a high bias (J+). Qualification was not required for non-detect results.

See Table 2 of this report for a summary of qualifications due to surrogate percent recovery failure.

D. Blanks

Target analytes were not observed in any laboratory method blanks associated with the project samples.

E. Laboratory Control Samples

All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate

A matrix spike and matrix spike duplicate were not analyzed with the project samples for this analysis.

G. Initial Calibration

Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration

Continuing calibration criteria were met for all continuing calibration standards associated with the project samples. Qualification was not

required for samples with non-detect results associated with high-failing continuing calibration verification (CCV) standards. Such failures were not noted in this report.

XIV. Dissolved Metals (6010B/6020/7470A/7740)

Overall, the data are usable as reported. Qualification was not required.

A. Reporting Limits
The laboratory reporting limits for metals in water matrix samples met the project-required reporting limits.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples.

D. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

E. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples.

F. Laboratory Duplicate Samples
All QC criteria were met for the laboratory duplicate samples associated with the project samples.

G. ICP Interference Check Standards
All QC criteria were met for the ICP interference check standards associated with the project samples.

H. ICP Serial Dilution
All QC criteria were met for the ICP serial dilutions associated with the project samples.

I. Initial and Continuing Calibrations
All initial and continuing calibration standards associated with the project samples met QC acceptance criteria.

XV. Various General Chemistry Methods: Total Dissolved Solids (160.1), Anions (300.0), Alkalinity (310.1), Total Sulfide (376.2)

Overall, the data are usable as reported. Qualification was not required.

A. Reporting Limits

The laboratory reporting limits for the general chemistry methods analyzed met the project required reporting limits listed in the QAPP, with the following exceptions:

1. The laboratory reporting limit for fluoride was 0.2 mg/L; the project required reporting limit for this analyte was 0.1 mg/L. The laboratory reporting limit for nitrate-nitrogen and nitrite-nitrogen was 0.1 mg/L; the project required reporting limit for these analytes was 0.05 mg/L.
2. The results for fluoride, nitrate-nitrogen and/or nitrite-nitrogen in samples BHWGW01CL (K0704852-001), 1349MW100CL (K0704852-002) and 231GW29CL (K0704852-003) were reported as non-detect at various sample dilutions. The reporting limits were raised by the dilution factors.

B. Holding Times

Technical holding time criteria were met for all project samples.

C. Blanks

Target analytes were not observed in any laboratory method blanks associated with the project samples.

D. Laboratory Control Samples

All QC criteria were met for the laboratory control samples associated with the project samples.

E. Matrix Spike/Matrix Spike Duplicate

All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples.

F. Laboratory Duplicate Samples

All QC criteria were met for the laboratory duplicate samples associated with the project samples.

G. Initial and Continuing Calibrations

All initial and continuing calibration standards associated with the project samples met QC acceptance criteria.

The following paragraphs highlight the essential findings of the field duplicate samples:

Field duplicate precision was evaluated by calculating the relative percent difference (RPD) between detected results in the original sample and its associated duplicate. The control limit used for field duplicates was a relative percent difference less than or equal to 50 percent, or the absolute difference of the two results must be less than the reporting limit for those analytes that were at or near the detection limit. Eight samples were collected in duplicate for the Second Quarter 2007 sampling event.

Project Sample Primary ID	Laboratory Sample ID	Project Sample Duplicate ID	Laboratory Sample ID
LF10SP01	194745-001	DUP0511071A	194745-002
231GW20	195234-001	DUP0605072A	195234-004
231GW13	195234-003	DUP0605072B	195234-005
LF4GW103	195241-002	DUP0605073A	195241-007
1349MW100	195270-001	DUP0606073A	195270-002
BHWGW01	195270-007	DUP0606073B	195270-008
231GW29	195270-010	DUP0606072A	195270-011
FM14EX07GW102	195270-014	DUP0606071A	195270-015

The attached Table 3 summarizes the field duplicate sample results. The detected results of the original samples and the associated duplicate samples were compared and the calculated RPDs reported. All RPDs met the 50 percent precision control limit requirement, with the following exceptions:

1. In QC split duplicates 231GW20 and DUP0605072A, the relative percent difference (RPD) between the detected results failed the 50% acceptance criteria for alkalinity (54%) and total dissolved solids (-73%).
2. In QC split duplicates 231GW13 and DUP0605072B, the RPD between the detected results failed the 50% acceptance criteria for dissolved copper at -130%.
3. In QC split duplicates 1349MW100 and DUP0606073A, the RPD between the detected results failed the 50% acceptance criteria for TPH-gasoline (108%) and alkalinity (-65%).

The analysis of field duplicate samples is a measure of both field and analytical precision. The imprecision in the results in the field duplicate pairs listed above may be due to the sample matrix, sampling or laboratory technique, or method defects. With the exceptions noted above, the results between the field duplicate pairs matched well. Since the effect on the quality of the data is not known, data is not qualified for field duplicate failure.

The following paragraphs highlight the essential findings of the QC split duplicate samples:

Laboratory analytical precision was evaluated by calculating the relative percent differences (RPDs) between detected results in the samples and the associated QC split duplicates, which were sent to another laboratory for analysis. The QC split samples were sent to Columbia Analytical Services in Kelso, WA. The control limit used for QC split duplicates was a relative percent difference less than or equal to 50 percent, or the absolute difference of the two results must be less than the reporting limit for those analytes that were at or near the detection limit. Four samples were collected in duplicate for the Second Quarter 2007 sampling event.

Project Sample Primary ID	Laboratory Sample ID	Project Sample Split Duplicate ID	Laboratory Sample ID
1349MW100	195270-001	1349MW100CL	K0704852-002
BHWGW01	195270-007	BHWGW01CL	K0704852-001
231GW29	195270-010	231GW29CL	K0704852-003
FM14EX07GW102	195270-014	FM14EX07GW102CL	K0704852-004

The attached Table 4 summarizes the QC split duplicate samples. The detected results were compared and the calculated RPDs reported. All RPDs met the 50 percent precision control limit requirement, with the following exception:

1. In QC split duplicates 1349MW100 and 1349MW100CL, the relative percent difference (RPD) between the detected results failed the 50% acceptance criteria for TPH-gasoline (189%), TPH-diesel (-76%), dissolved arsenic (-63%) and alkalinity (-70%), and the absolute difference between the results was greater than the reporting limit for heptachlor, acenaphthene, benzo(a)anthracene and chrysene. The original result for heptachlor was 0.8 ug/L and the duplicate result was non-detect at 0.096 ug/L. The original result for acenaphthene was 5.1 ug/L and the duplicate result was non-detect at 0.96 ug/L. The original result for benzo(a)anthracene was 2.6 ug/L and the duplicate result was non-detect at 0.096 ug/L. The original result for chrysene was 2.5 ug/L and the duplicate result was non-detect at 0.096 ug/L.

Data is not qualified due to RPD failure of QC split samples because the effect on the quality of the data is not known.

The following paragraphs highlight the essential findings of the field QC blank samples:

Nine trip blanks, one equipment blank and two source blanks were analyzed with the project samples. All field QC blanks were non-detect for all methods analyzed, with the following exceptions:

1. Equipment blank BHWGW04RBHWGW100 (195270-004) had detected levels of calcium (960 ug/L) and sodium (530 ug/L). The associated project samples had calcium and sodium values greater than five times the blank amounts, and qualification was not required.
2. Source blank DW060707A (195279-001) had a detected level of calcium at 720 ug/L. Project sample association with this blank could not be established, and qualification was not required.
3. Source blank DW060807B (195303-030) had a detected level of antimony at 15 ug/L. The associated project samples were non-detect for antimony, and qualification was not required.
4. Equipment blank BHWGW04RBHWGW100 (195270-004) had a detected level of nitrate-nitrogen at 0.08 mg/L. The results for nitrate-nitrogen in the associated samples were changed to non-detect (U) if those values were less than five times the blank amount.
5. Source blank DW060707A (195279-001) had a detected level of total dissolved solids at 44 mg/L. Qualification was not required for the physical property parameter total dissolved solids.

SUMMARY

The attached Table 1 lists the samples and analyses included in the data validation effort. The attached Table 2 summarizes the data qualifications for the project samples included in the data packages.

USABILITY

The quality control criteria were reviewed, and other than those discussed above, all criteria were met and the data are considered acceptable. Rejected sample results (R) are not usable for any purpose. Estimated sample results (J/UJ) are usable only for limited purposes. Based upon the cursory level data validation, all other results are considered valid and usable for all purposes.

VALIDATION QUALIFIERS IDENTIFICATION

The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review," October, 1999.

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. *A minus sign (-) indicates the numerical value has a low bias. A plus sign (+) indicates the numerical value has a high bias.*

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Table 1
Sample Summary
Second Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Site Sample ID	Laboratory Sample ID	Date Sampled	Analyses	Sample Type
LF10SP01	194745-001	11-May-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX (8021B)	Water (1)
DUP0511071A	194745-002	11-May-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX (8021B)	FD (1)
231GW20	195234-001	5-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water (2)
231GW06	195234-002	5-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
231GW13	195234-003	5-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water (3)
DUP0605072A	195234-004	5-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	FD (2)
DUP0605072B	195234-005	5-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	FD (3)
TB0605072A	195234-006	5-Jun-07	Volatile Organic Compounds (8260B)	Trip Blank
LF10GW03	195241-001	5-Jun-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
LF4GW103	195241-002	5-Jun-07	Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3)	Water (4)
LF4GW104	195241-003	5-Jun-07	Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3)	Water
231GW09	195241-004	5-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
231GW28	195241-005	5-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
LF10GW100	195241-006	5-Jun-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
DUP0605073A	195241-007	5-Jun-07	Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3)	FD (4)
TB0605073A	195241-008	5-Jun-07	Volatile Organic Compounds (8260B)	Trip Blank
BB1PZ100	195247-001	5-Jun-07	TPH-Diesel/FO (8015B), Pesticides (8081A), PAHs (8310), Total & Dissolved Metals (6020, 7470A), General Chemistry Parameters (2, 3)	Water
BB1PZ101	195247-002	5-Jun-07	TPH-Diesel/FO (8015B), Pesticides (8081A), PAHs (8310), Total & Dissolved Metals (6020, 7470A), General Chemistry Parameters (2, 3)	Water
LF10GW01	195247-003	5-Jun-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
LF10GW02	195247-004	5-Jun-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
LF10SP01	195247-005	5-Jun-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
BB3GW100	195247-006	5-Jun-07	Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3)	Water
TB0605071A	195247-007	5-Jun-07	Volatile Organic Compounds (8260B)	Trip Blank
1349MW100	195270-001	6-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PAHs (8310), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3)	Water (5)
DUP0606073A	195270-002	6-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PAHs (8310), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3)	FD (5)

Table 1
Sample Summary
Second Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Site Sample ID	Laboratory Sample ID	Date Sampled	Analyses	Sample Type
BHWGW04	195270-003	6-Jun-07	Dissolved Metals (6020), General Chemistry Parameters (2, 3)	Water
BHWGW04RBHWGW100	195270-004	6-Jun-07	Dissolved Metals (6020), General Chemistry Parameters (2, 3)	Equipment Blank
HWGW101	195270-005	6-Jun-07	Dissolved Metals (6020), General Chemistry Parameters (2, 3)	Water
BHWGW05	195270-006	6-Jun-07	Dissolved Metals (6020), General Chemistry Parameters (2, 3)	Water
BHWGW01	195270-007	6-Jun-07	Dissolved Metals (6020), General Chemistry Parameters (2, 3)	Water (6)
DUP0606073B	195270-008	6-Jun-07	Dissolved Metals (6020), General Chemistry Parameters (2, 3)	FD (6)
TB0606073A	195270-009	6-Jun-07	Volatile Organic Compounds (8260B)	Trip Blank
231GW29	195270-010	6-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water (7)
DUP0606072A	195270-011	6-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	FD (7)
BB3SW101	195270-012	6-Jun-07	Dissolved Metals (6020)	Water
FM14EX07GW101	195270-013	6-Jun-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), PAHs (8310)	Water
FM14EX07GW102	195270-014	6-Jun-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), PAHs (8310)	Water (8)
DUP0606071A	195270-015	6-Jun-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), PAHs (8310)	FD (8)
1213GW101	195270-016	6-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), PAHs (8310), Dissolved Metals (6020), General Chemistry Parameters (2, 3)	Water
610GW101	195270-017	6-Jun-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3)	Water
610GW102	195270-018	6-Jun-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3)	Water
TB0606071A	195270-019	6-Jun-07	Volatile Organic Compounds (8260B)	Trip Blank
DW060707A	195279-001	7-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PAHs (8310), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3, 12)	Source Blank
HWGW100	195303-001	7-Jun-07	Dissolved Metals (6020), General Chemistry Parameters (2, 3)	Water
231GW10	195303-002	7-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
231GW16	195303-003	7-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
231GW30	195303-004	7-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
231GW21	195303-005	7-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
231GW22	195303-006	7-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
TB0607073A	195303-007	7-Jun-07	Volatile Organic Compounds (8260B)	Trip Blank

Table 1
Sample Summary
Second Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Site Sample ID	Laboratory Sample ID	Date Sampled	Analyses	Sample Type
1065MW103A	195303-008	7-Jun-07	TPH-Gasoline (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
600GW106	195303-009	7-Jun-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3)	Water
610GW103	195303-010	7-Jun-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3)	Water
610SP01	195303-011	7-Jun-07	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Total & Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3)	Water
231PZ04	195303-012	7-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
231PZ03	195303-013	7-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
TB0607071A	195303-014	7-Jun-07	Volatile Organic Compounds (8260B)	Trip Blank
231GW17	195303-015	7-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
231GW18	195303-016	7-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
231GW24	195303-017	7-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
231GW19	195303-018	7-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
231GW15	195303-019	7-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
231GW25	195303-020	7-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
231GW23	195303-021	7-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
231GW11	195303-022	7-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
TB0607072A	195303-023	7-Jun-07	Volatile Organic Compounds (8260B)	Trip Blank
231GW26	195303-024	8-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (2, 3, 12)	Water
231GW27	195303-025	8-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (2, 3, 12)	Water
WT060807	195303-026	8-Jun-07	Total Metals (6020, 7470A), General Chemistry Parameters (8, 10, 11, 12)	Water

Table 1
Sample Summary
Second Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Site Sample ID	Laboratory Sample ID	Date Sampled	Analyses	Sample Type
207GW03	195303-027	8-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (2, 3, 12)	Water
231PZ01	195303-028	7-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
231PZ02	195303-029	7-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
DW060807B	195303-030	8-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PAHs (8310), Dissolved Metals (6020, 7470A), General Chemistry Parameters (2, 3, 12)	Source Blank
WT061307	195303-031	13-Jun-07	General Chemistry Parameters (14)	Water
BHWGW01CL	K0704852-001	6-Jun-07	Dissolved Metals (6020), General Chemistry Parameters (2, 3)	QC (6)
1349MW100CL	K0704852-002	6-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PAHs (8310), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3)	QC (5)
231GW29CL	K0704852-003	6-Jun-07	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	QC (7)
FM14EX07GW102CL	K0704852-004	6-Jun-07	BTEX/MTBE (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), PAHs (8310)	QC (8)
TB0606071ACL	K0704852-005	6-Jun-07	Volatile Organic Compounds (8260B)	Trip Blank

VOCs: Volatile Organic Compounds
TPH: Total Petroleum Hydrocarbons
FO: Fuel Oil
PCBs: Polychlorinated Biphenyls
PAHs: Polynuclear Aromatic Hydrocarbons
BTEX: Benzene, Toluene, Ethylbenzene, Xylenes
MTBE: Methyl tertiary-butyl ether
NDMA: N-Nitrosodimethylamine
FD: Field duplicate of previous numbered sample, (1), (2), etc.
QC: QC split duplicate of previous numbered sample, (1), (2), etc.

General Chemistry Parameters
(1) Total Dissolved Solids (160.1)
(2) Alkalinity (310.1)
(3) Anions (300.0)
(4) Fluoride (340.2)
(5) Nitrate-N (353.2)
(6) Nitrate/Nitrite-N (353.2)
(7) Hardness (SM 2340B)
(8) Cyanide (335.2)
(9) Surfactants (425.1)
(10) Oil & Grease (1664A)
(11) Phenolics (420.1)
(12) Sulfide (376.2)
(13) Total Organic Carbon (415.2)
(14) pH (SW9040B)
(15) Nitrite-N (354.1)

Table 2
Qualified Data Summary
Second Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Sample ID	Laboratory ID	Analysis Method	Compound	Qualifier	Reason
231GW20	195234-001	300.1	Nitrate-Nitrogen	J	Missed analysis holding time, LCS/LCSD %R failure
231GW20	195234-001	300.1	Nitrite-Nitrogen	UJ	Missed analysis holding time
231GW20	195234-001	160.1	TDS	J	Laboratory duplicate relative percent difference failure
231GW06	195234-002	160.1	TDS	J	Laboratory duplicate relative percent difference failure
231GW13	195234-003	160.1	TDS	J	Laboratory duplicate relative percent difference failure
DUP0605072A	195234-004	160.1	TDS	J	Laboratory duplicate relative percent difference failure
DUP0605072B	195234-005	160.1	TDS	J	Laboratory duplicate relative percent difference failure
LF4GW103	195241-002	6020	Calcium, dissolved	J+	Interference Check Standard percent recovery failure
LF4GW103	195241-002	160.1	TDS	J	Laboratory duplicate relative percent difference failure
LF4GW104	195241-003	6020	Calcium, dissolved	J+	Interference Check Standard percent recovery failure
LF4GW104	195241-003	160.1	TDS	J	Laboratory duplicate relative percent difference failure
231GW09	195241-004	300.1	Nitrate-Nitrogen	J	Missed analysis holding time, LCS/LCSD %R failure
231GW09	195241-004	160.1	TDS	J	Laboratory duplicate relative percent difference failure
231GW28	195241-005	160.1	TDS	J	Laboratory duplicate relative percent difference failure
DUP0605073A	195241-007	6020	Calcium, dissolved	J+	Interference Check Standard percent recovery failure
DUP0605073A	195241-007	160.1	TDS	J	Laboratory duplicate relative percent difference failure
BB1PZ100	195247-001	8081A	Dieldrin	UJ	Surrogate percent recovery failure
BB1PZ100	195247-001	8081A	4,4'-DDE	UJ	Surrogate percent recovery failure
BB1PZ100	195247-001	8081A	Endrin	UJ	Surrogate percent recovery failure
BB1PZ100	195247-001	8081A	Endosulfan II	UJ	Surrogate percent recovery failure
BB1PZ100	195247-001	8081A	4,4'-DDD	UJ	Surrogate percent recovery failure
BB1PZ100	195247-001	8081A	Endosulfan sulfate	UJ	Surrogate percent recovery failure
BB1PZ100	195247-001	8081A	4,4'-DDT	UJ	Surrogate percent recovery failure
BB1PZ100	195247-001	8081A	Methoxychlor	UJ	Surrogate percent recovery failure
BB1PZ100	195247-001	8081A	Endrin ketone	UJ	Surrogate percent recovery failure
BB1PZ100	195247-001	8081A	alpha-Chlordane	UJ	Surrogate percent recovery failure
BB1PZ100	195247-001	8081A	gamma-Chlordane	UJ	Surrogate percent recovery failure
BB1PZ100	195247-001	8081A	Toxaphene	UJ	Surrogate percent recovery failure
BB1PZ101	195247-002	8081A	Dieldrin	UJ	Surrogate percent recovery failure
BB1PZ101	195247-002	8081A	4,4'-DDE	UJ	Surrogate percent recovery failure
BB1PZ101	195247-002	8081A	Endrin	UJ	Surrogate percent recovery failure

Table 2
Qualified Data Summary
Second Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Sample ID	Laboratory ID	Analysis Method	Compound	Qualifier	Reason
BB1PZ101	195247-002	8081A	Endosulfan II	UJ	Surrogate percent recovery failure
BB1PZ101	195247-002	8081A	4,4'-DDD	UJ	Surrogate percent recovery failure
BB1PZ101	195247-002	8081A	Endosulfan sulfate	UJ	Surrogate percent recovery failure
BB1PZ101	195247-002	8081A	4,4'-DDT	UJ	Surrogate percent recovery failure
BB1PZ101	195247-002	8081A	Methoxychlor	UJ	Surrogate percent recovery failure
BB1PZ101	195247-002	8081A	Endrin ketone	UJ	Surrogate percent recovery failure
BB1PZ101	195247-002	8081A	alpha-Chlordane	UJ	Surrogate percent recovery failure
BB1PZ101	195247-002	8081A	gamma-Chlordane	UJ	Surrogate percent recovery failure
BB1PZ101	195247-002	8081A	Toxaphene	UJ	Surrogate percent recovery failure
BB3GW100	195247-006	6020	Calcium, dissolved	J+	Interference Check Standard percent recovery failure
BB3GW100	195247-006	160.1	TDS	J	Laboratory duplicate relative percent difference failure
1349MW100	195270-001	8260B	Acetone	UJ	Continuing calibration verification percent difference failure
1349MW100	195270-001	6020	Aluminum, dissolved	UJ	Interference Check Standard percent recovery failure
1349MW100	195270-001	6020	Calcium, dissolved	J-	Interference Check Standard percent recovery failure
1349MW100	195270-001	6020	Iron, dissolved	J-	Interference Check Standard percent recovery failure
1349MW100	195270-001	6020	Potassium, dissolved	J-	Interference Check Standard percent recovery failure
DUP0606073A	195270-002	6020	Aluminum, dissolved	UJ	Interference Check Standard percent recovery failure
DUP0606073A	195270-002	6020	Calcium, dissolved	J-	Interference Check Standard percent recovery failure
DUP0606073A	195270-002	6020	Iron, dissolved	J-	Interference Check Standard percent recovery failure
DUP0606073A	195270-002	6020	Potassium, dissolved	J-	Interference Check Standard percent recovery failure
BHWGW04	195270-003	300.1	Nitrate-Nitrogen	J+	LCS/LCSD percent recovery failure
BHWGW01	195270-007	300.1	Nitrate-Nitrogen	J+	LCS/LCSD percent recovery failure
DUP0606073B	195270-008	300.1	Nitrate-Nitrogen	J+	LCS/LCSD percent recovery failure
TB0606073A	195270-009	8260B	Acetone	UJ	Continuing calibration verification percent difference failure
231GW29	195270-010	300.1	Nitrate-Nitrogen	J+	LCS/LCSD percent recovery failure
DUP0606072A	195270-011	300.1	Nitrate-Nitrogen	J+	LCS/LCSD percent recovery failure
FM14EX07GW101	195270-013	8310	Benzo(a)pyrene	UJ	MS/MSD percent recovery failure
1213GW101	195270-016	8260B	Acetone	UJ	Continuing calibration verification percent difference failure
1213GW101	195270-016	6020	Aluminum, dissolved	UJ	Interference Check Standard percent recovery failure
1213GW101	195270-016	6020	Calcium, dissolved	J-	Interference Check Standard percent recovery failure
1213GW101	195270-016	6020	Iron, dissolved	UJ	Interference Check Standard percent recovery failure

Table 2
Qualified Data Summary
Second Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Sample ID	Laboratory ID	Analysis Method	Compound	Qualifier	Reason
1213GW101	195270-016	6020	Magneiusm, dissolved	J-	Interference Check Standard percent recovery failure
1213GW101	195270-016	6020	Potassium, dissolved	J-	Interference Check Standard percent recovery failure
1213GW101	195270-016	300.1	Nitrate-Nitrogen	J+	LCS/LCSD percent recovery failure
610GW102	195270-018	300.1	Nitrate-Nitrogen	U	Equipment blank contamination
HWGW100	195303-001	300.1	Nitrate-Nitrogen	J	Missed analysis holding time, LCS/LCSD %R failure
HWGW100	195303-001	300.1	Nitrite-Nitrogen	UJ	Missed analysis holding time
231GW10	195303-002	8260B	Acetone	UJ	Continuing calibration verification percent difference failure
231GW10	195303-002	376.2	Sulfide	UJ	MS/MSD percent recovery failure
231GW16	195303-003	8260B	Acetone	UJ	Continuing calibration verification percent difference failure
231GW16	195303-003	376.2	Sulfide	J-	MS/MSD percent recovery failure
231GW30	195303-004	8260B	Acetone	UJ	Continuing calibration verification percent difference failure
231GW30	195303-004	300.1	Nitrate-Nitrogen	J+	LCS/LCSD percent recovery failure
231GW30	195303-004	376.2	Sulfide	J-	MS/MSD percent recovery failure
231GW21	195303-005	376.2	Sulfide	UJ	MS/MSD percent recovery failure
231GW22	195303-006	376.2	Sulfide	UJ	MS/MSD percent recovery failure
TB0607073A	195303-007	8260B	Acetone	UJ	Continuing calibration verification percent difference failure
1065MW103A	195303-008	300.1	Sulfate	J+	LCS/LCSD percent recovery failure
1065MW103A	195303-008	376.2	Sulfide	UJ	MS/MSD percent recovery failure
600GW106	195303-009	300.1	Nitrate-Nitrogen	J+	LCS/LCSD percent recovery failure
610GW103	195303-010	300.1	Sulfate	J+	LCS/LCSD percent recovery failure
231PZ04	195303-012	376.2	Sulfide	J-	MS/MSD percent recovery failure
231PZ03	195303-013	376.2	Sulfide	UJ	MS/MSD percent recovery failure
TB0607071A	195303-014	8260B	Acetone	UJ	Continuing calibration verification percent difference failure
231GW17	195303-015	8260B	Acetone	UJ	Continuing calibration verification percent difference failure
231GW17	195303-015	300.1	Nitrate-Nitrogen	J+	LCS/LCSD percent recovery failure
231GW17	195303-015	300.1	Sulfate	J+	LCS/LCSD percent recovery failure
231GW17	195303-015	376.2	Sulfide	UJ	MS/MSD percent recovery failure
231GW18	195303-016	8260B	Acetone	UJ	Continuing calibration verification percent difference failure
231GW18	195303-016	300.1	Nitrate-Nitrogen	J+	LCS/LCSD percent recovery failure
231GW18	195303-016	300.1	Sulfate	J+	LCS/LCSD percent recovery failure
231GW18	195303-016	376.2	Sulfide	UJ	MS/MSD percent recovery failure

Table 2
Qualified Data Summary
Second Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Sample ID	Laboratory ID	Analysis Method	Compound	Qualifier	Reason
231GW24	195303-017	8260B	Acetone	UJ	Continuing calibration verification percent difference failure
231GW24	195303-017	300.1	Sulfate	J+	LCS/LCSD percent recovery failure
231GW19	195303-018	8260B	Acetone	UJ	Continuing calibration verification percent difference failure
231GW19	195303-018	300.1	Sulfate	J+	LCS/LCSD percent recovery failure
231GW15	195303-019	8260B	Acetone	UJ	Continuing calibration verification percent difference failure
231GW15	195303-019	300.1	Nitrate-Nitrogen	J+	LCS/LCSD percent recovery failure
231GW15	195303-019	300.1	Sulfate	J+	LCS/LCSD percent recovery failure
231GW23	195303-021	300.1	Nitrate-Nitrogen	UJ	Missed analysis holding time
231GW23	195303-021	300.1	Nitrite-Nitrogen	UJ	Missed analysis holding time
231GW11	195303-022	300.1	Sulfate	J+	LCS/LCSD percent recovery failure
231GW26	195303-024	300.1	Nitrate-Nitrogen	J+	LCS/LCSD percent recovery failure
231GW26	195303-024	300.1	Sulfate	J+	LCS/LCSD percent recovery failure
231GW27	195303-025	300.1	Nitrate-Nitrogen	J+	LCS/LCSD percent recovery failure
231GW27	195303-025	300.1	Sulfate	J+	LCS/LCSD percent recovery failure
231PZ01	195303-028	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
231PZ02	195303-029	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
1349MW100CL	K0704852-002	8260B	Benzene	J+	Surrogate percent recovery failure
1349MW100CL	K0704852-002	8260B	Vinyl acetate	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
1349MW100CL	K0704852-002	8260B	2-Chloroethyl vinyl ether	R	Minimum average RRF < 0.05
1349MW100CL	K0704852-002	8260B	Acetone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
1349MW100CL	K0704852-002	8260B	2-Butanone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
1349MW100CL	K0704852-002	8260B	2-Hexanone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
1349MW100CL	K0704852-002	8260B	4-Methyl-2-pentanone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
1349MW100CL	K0704852-002	8081A	Aldrin	UJ	LCS/LCSD percent recovery failure
1349MW100CL	K0704852-002	8310	Fluorene	J+	Surrogate percent recovery failure
1349MW100CL	K0704852-002	8310	Anthracene	J+	Surrogate percent recovery failure
231GW29CL	K0704852-003	8260B	Vinyl acetate	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
231GW29CL	K0704852-003	8260B	2-Chloroethyl vinyl ether	R	Minimum average RRF < 0.05
231GW29CL	K0704852-003	8260B	Acetone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
231GW29CL	K0704852-003	8260B	2-Butanone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05

Table 2
Qualified Data Summary
Second Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Sample ID	Laboratory ID	Analysis Method	Compound	Qualifier	Reason
231GW29CL	K0704852-003	8260B	2-Hexanone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
231GW29CL	K0704852-003	8260B	4-Methyl-2-pentanone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
TB0606071ACL	K0704852-005	8260B	Vinyl acetate	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
TB0606071ACL	K0704852-005	8260B	2-Chloroethyl vinyl ether	R	Minimum average RRF < 0.05
TB0606071ACL	K0704852-005	8260B	Acetone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
TB0606071ACL	K0704852-005	8260B	2-Butanone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
TB0606071ACL	K0704852-005	8260B	2-Hexanone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05
TB0606071ACL	K0704852-005	8260B	4-Methyl-2-pentanone	R	Minimum average RRF < 0.05, Minimum RRF < 0.05

LCS/LCSD: Laboratory control sample/laboratory control sample duplicate
MS/MSD: Matrix spike/matrix spike duplicate
%R: Percent recovery
RRF: Relative response factor

Table 3
Summary of Field Duplicates
Second Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	Duplicate Sample ID	Laboratory ID	Duplicate Results*	RPD
LF10SP01	194745-001	Water	Gasoline C7-C12	ND	DUP0511071A	194745-002	ND	NA
LF10SP01	194745-001	Water	Benzene	ND	DUP0511071A	194745-002	ND	NA
LF10SP01	194745-001	Water	Toluene	ND	DUP0511071A	194745-002	ND	NA
LF10SP01	194745-001	Water	Ethylbenzene	ND	DUP0511071A	194745-002	ND	NA
LF10SP01	194745-001	Water	Xylene (total)	ND	DUP0511071A	194745-002	ND	NA
LF10SP01	194745-001	Water	Diesel C12-C24	88	DUP0511071A	194745-002	ND< 50	NC
LF10SP01	194745-001	Water	Motor Oil C24-C36	ND	DUP0511071A	194745-002	ND	NA
231GW20	195234-001	Water	All VOCs	ND	DUP0605072A	195234-004	ND	NA
231GW20	195234-001	Water	Gasoline C7-C12	ND	DUP0605072A	195234-004	ND	NA
231GW20	195234-001	Water	Diesel C12-C24	ND	DUP0605072A	195234-004	ND	NA
231GW20	195234-001	Water	Motor Oil C24-C36	ND	DUP0605072A	195234-004	ND	NA
231GW20	195234-001	Water	Cadmium, dissolved	1.6	DUP0605072A	195234-004	ND< 1.0	NC
231GW20	195234-001	Water	Calcium, dissolved	13000	DUP0605072A	195234-004	14000	-7.4%
231GW20	195234-001	Water	Copper, dissolved	4.3	DUP0605072A	195234-004	3.7	15%
231GW20	195234-001	Water	Magnesium, dissolved	3800	DUP0605072A	195234-004	3900	-2.6%
231GW20	195234-001	Water	Potassium, dissolved	2200	DUP0605072A	195234-004	2200	0%
231GW20	195234-001	Water	Sodium, dissolved	8400	DUP0605072A	195234-004	8600	-2.4%
231GW20	195234-001	Water	All other metals	ND	DUP0605072A	195234-004	ND	NA
231GW20	195234-001	Water	Chloride	9.7	DUP0605072A	195234-004	9.6	1.0%
231GW20	195234-001	Water	Fluoride	ND	DUP0605072A	195234-004	ND	NA
231GW20	195234-001	Water	Nitrogen, Nitrate	0.66	DUP0605072A	195234-004	0.65	1.5%
231GW20	195234-001	Water	Nitrogen, Nitrite	ND	DUP0605072A	195234-004	ND	NA
231GW20	195234-001	Water	Sulfate	8.8	DUP0605072A	195234-004	8.8	0%
231GW20	195234-001	Water	Alkalinity, Total as CaCO3	90	DUP0605072A	195234-004	52	**54%**
231GW20	195234-001	Water	Sulfide	ND	DUP0605072A	195234-004	ND	NA
231GW20	195234-001	Water	Total Dissolved Solids	42	DUP0605072A	195234-004	90	**-73%**
231GW13	195234-003	Water	All VOCs	ND	DUP0605072B	195234-005	ND	NA
231GW13	195234-003	Water	Gasoline C7-C12	ND	DUP0605072B	195234-005	ND	NA
231GW13	195234-003	Water	Diesel C12-C24	ND	DUP0605072B	195234-005	ND	NA
231GW13	195234-003	Water	Motor Oil C24-C36	ND	DUP0605072B	195234-005	ND	NA
231GW13	195234-003	Water	Arsenic, dissolved	31	DUP0605072B	195234-005	29	6.7%
231GW13	195234-003	Water	Calcium, dissolved	2600	DUP0605072B	195234-005	2600	0%
231GW13	195234-003	Water	Copper, dissolved	7.4	DUP0605072B	195234-005	35	**-130%**
231GW13	195234-003	Water	Iron, dissolved	250	DUP0605072B	195234-005	340	-31%
231GW13	195234-003	Water	Magnesium, dissolved	5400	DUP0605072B	195234-005	5300	1.9%
231GW13	195234-003	Water	Manganese, dissolved	59	DUP0605072B	195234-005	61	-3.3%
231GW13	195234-003	Water	Potassium, dissolved	7000	DUP0605072B	195234-005	6900	1.4%

Table 3
Summary of Field Duplicates
Second Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	Duplicate Sample ID	Laboratory ID	Duplicate Results*	RPD
231GW13	195234-003	Water	Sodium, dissolved	310000	DUP0605072B	195234-005	290000	6.7%
231GW13	195234-003	Water	Zinc, dissolved	ND< 20	DUP0605072B	195234-005	33	NC
231GW13	195234-003	Water	All other metals	ND	DUP0605072B	195234-005	ND	NA
231GW13	195234-003	Water	Chloride	200	DUP0605072B	195234-005	220	-9.5%
231GW13	195234-003	Water	Fluoride	0.61	DUP0605072B	195234-005	0.6	1.7%
231GW13	195234-003	Water	Nitrogen, Nitrate	0.84	DUP0605072B	195234-005	0.78	7.4%
231GW13	195234-003	Water	Nitrogen, Nitrite	ND	DUP0605072B	195234-005	ND	NA
231GW13	195234-003	Water	Sulfate	ND	DUP0605072B	195234-005	ND	NA
231GW13	195234-003	Water	Alkalinity, Total as CaCO3	480	DUP0605072B	195234-005	460	4.3%
231GW13	195234-003	Water	Sulfide	ND	DUP0605072B	195234-005	ND	NA
231GW13	195234-003	Water	Total Dissolved Solids	810	DUP0605072B	195234-005	840	-3.6%
LF4GW103	195241-002	Water	Calcium, dissolved	180000	DUP0605073A	195241-007	200000	-11%
LF4GW103	195241-002	Water	Magnesium, dissolved	460000	DUP0605073A	195241-007	490000	-6.3%
LF4GW103	195241-002	Water	Manganese, dissolved	33	DUP0605073A	195241-007	35	-5.9%
LF4GW103	195241-002	Water	Nickel, dissolved	40	DUP0605073A	195241-007	41	-2.5%
LF4GW103	195241-002	Water	Potassium, dissolved	1400	DUP0605073A	195241-007	1500	-6.9%
LF4GW103	195241-002	Water	Sodium, dissolved	170000	DUP0605073A	195241-007	170000	0%
LF4GW103	195241-002	Water	All other metals	ND	DUP0605073A	195241-007	ND	NA
LF4GW103	195241-002	Water	Chloride	740	DUP0605073A	195241-007	740	0%
LF4GW103	195241-002	Water	Fluoride	ND	DUP0605073A	195241-007	ND	NA
LF4GW103	195241-002	Water	Nitrogen, Nitrate	ND	DUP0605073A	195241-007	ND	NA
LF4GW103	195241-002	Water	Nitrogen, Nitrite	ND	DUP0605073A	195241-007	ND	NA
LF4GW103	195241-002	Water	Sulfate	460	DUP0605073A	195241-007	450	2.2%
LF4GW103	195241-002	Water	Alkalinity, Total as CaCO3	1700	DUP0605073A	195241-007	1600	6.1%
LF4GW103	195241-002	Water	Total Dissolved Solids	2940	DUP0605073A	195241-007	2790	5.2%
1349MW100	195270-001	Water	Benzene	25	DUP0606073A	195270-002	24	4.1%
1349MW100	195270-001	Water	Toluene	0.5	DUP0606073A	195270-002	ND< 0.5	NC
1349MW100	195270-001	Water	Xylene (total)	0.8	DUP0606073A	195270-002	0.7	13%
1349MW100	195270-001	Water	All other VOCs	ND	DUP0606073A	195270-002	ND	NA
1349MW100	195270-001	Water	Gasoline C7-C12	5000	DUP0606073A	195270-002	1500	**108%**
1349MW100	195270-001	Water	Diesel C12-C24	13000	DUP0606073A	195270-002	20000	-42%
1349MW100	195270-001	Water	Motor Oil C24-C36	ND< 300	DUP0606073A	195270-002	360	NC
1349MW100	195270-001	Water	Heptachlor	0.8	DUP0606073A	195270-002	0.9	-12%
1349MW100	195270-001	Water	All other pestides	ND	DUP0606073A	195270-002	ND	NA
1349MW100	195270-001	Water	Acenaphthene	5.1	DUP0606073A	195270-002	6.2	-19%
1349MW100	195270-001	Water	Fluorene	16	DUP0606073A	195270-002	16	0%
1349MW100	195270-001	Water	Phenanthrene	29	DUP0606073A	195270-002	27	7.1%

Table 3
Summary of Field Duplicates
Second Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	Duplicate Sample ID	Laboratory ID	Duplicate Results*	RPD
1349MW100	195270-001	Water	Anthracene	1.4	DUP0606073A	195270-002	1.4	0%
1349MW100	195270-001	Water	Fluoranthene	8.5	DUP0606073A	195270-002	8	6.1%
1349MW100	195270-001	Water	Pyrene	3.7	DUP0606073A	195270-002	3.4	8.5%
1349MW100	195270-001	Water	Benzo(a)anthracene	2.6	DUP0606073A	195270-002	2.2	17%
1349MW100	195270-001	Water	Chrysene	2.5	DUP0606073A	195270-002	2.4	4.1%
1349MW100	195270-001	Water	Benzo(k)fluoranthene	0.16	DUP0606073A	195270-002	0.14	13%
1349MW100	195270-001	Water	All other PAHs	ND	DUP0606073A	195270-002	ND	NA
1349MW100	195270-001	Water	Arsenic, dissolved	9.4	DUP0606073A	195270-002	8.5	10%
1349MW100	195270-001	Water	Barium, dissolved	610	DUP0606073A	195270-002	620	-1.6%
1349MW100	195270-001	Water	Calcium, dissolved	140000	DUP0606073A	195270-002	150000	-6.9%
1349MW100	195270-001	Water	Iron, dissolved	39000	DUP0606073A	195270-002	41000	-5.0%
1349MW100	195270-001	Water	Magnesium, dissolved	190000	DUP0606073A	195270-002	190000	0%
1349MW100	195270-001	Water	Manganese, dissolved	13000	DUP0606073A	195270-002	13000	0%
1349MW100	195270-001	Water	Potassium, dissolved	2000	DUP0606073A	195270-002	2100	-4.9%
1349MW100	195270-001	Water	Sodium, dissolved	350000	DUP0606073A	195270-002	360000	-2.8%
1349MW100	195270-001	Water	All other metals	ND	DUP0606073A	195270-002	ND	NA
1349MW100	195270-001	Water	Chloride	910	DUP0606073A	195270-002	1100	-19%
1349MW100	195270-001	Water	Fluoride	0.3	DUP0606073A	195270-002	0.29	3.4%
1349MW100	195270-001	Water	Nitrogen, Nitrate	ND	DUP0606073A	195270-002	ND	NA
1349MW100	195270-001	Water	Nitrogen, Nitrite	ND	DUP0606073A	195270-002	ND	NA
1349MW100	195270-001	Water	Sulfate	5	DUP0606073A	195270-002	5	0%
1349MW100	195270-001	Water	Alkalinity, Total as CaCO3	470	DUP0606073A	195270-002	920	**-65%**
1349MW100	195270-001	Water	Total Dissolved Solids	2920	DUP0606073A	195270-002	2280	25%
BHWGW01	195270-007	Water	Barium, dissolved	46	DUP0606073B	195270-008	45	2.2%
BHWGW01	195270-007	Water	Calcium, dissolved	17000	DUP0606073B	195270-008	18000	-5.7%
BHWGW01	195270-007	Water	Chromium, dissolved	100	DUP0606073B	195270-008	110	-9.5%
BHWGW01	195270-007	Water	Magnesium, dissolved	77000	DUP0606073B	195270-008	81000	-5.1%
BHWGW01	195270-007	Water	Sodium, dissolved	220000	DUP0606073B	195270-008	220000	0%
BHWGW01	195270-007	Water	All other metals	ND	DUP0606073B	195270-008	ND	NA
BHWGW01	195270-007	Water	Chloride	230	DUP0606073B	195270-008	230	0%
BHWGW01	195270-007	Water	Fluoride	0.12	DUP0606073B	195270-008	0.12	0%
BHWGW01	195270-007	Water	Nitrogen, Nitrate	5.7	DUP0606073B	195270-008	5.7	0%
BHWGW01	195270-007	Water	Nitrogen, Nitrite	ND	DUP0606073B	195270-008	ND	NA
BHWGW01	195270-007	Water	Sulfate	67	DUP0606073B	195270-008	70	-4.4%
BHWGW01	195270-007	Water	Alkalinity, Total as CaCO3	540	DUP0606073B	195270-008	540	0%
231GW29	195270-010	Water	All VOCs	ND	DUP0606072A	195270-011	ND	NA
231GW29	195270-010	Water	Gasoline C7-C12	ND	DUP0606072A	195270-011	ND	NA

Table 3
Summary of Field Duplicates
Second Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	Duplicate Sample ID	Laboratory ID	Duplicate Results*	RPD
231GW29	195270-010	Water	Diesel C12-C24	ND	DUP0606072A	195270-011	ND	NA
231GW29	195270-010	Water	Motor Oil C24-C36	ND	DUP0606072A	195270-011	ND	NA
231GW29	195270-010	Water	Calcium, dissolved	27000	DUP0606072A	195270-011	27000	0%
231GW29	195270-010	Water	Magnesium, dissolved	53000	DUP0606072A	195270-011	54000	-1.9%
231GW29	195270-010	Water	Manganese, dissolved	140	DUP0606072A	195270-011	150	-6.9%
231GW29	195270-010	Water	Potassium, dissolved	4000	DUP0606072A	195270-011	4000	0%
231GW29	195270-010	Water	Sodium, dissolved	46000	DUP0606072A	195270-011	49000	-6.3%
231GW29	195270-010	Water	All other metals	ND	DUP0606072A	195270-011	ND	NA
231GW29	195270-010	Water	Chloride	54	DUP0606072A	195270-011	54	0%
231GW29	195270-010	Water	Fluoride	ND	DUP0606072A	195270-011	ND	NA
231GW29	195270-010	Water	Nitrogen, Nitrate	1.5	DUP0606072A	195270-011	1.5	0%
231GW29	195270-010	Water	Nitrogen, Nitrite	ND	DUP0606072A	195270-011	ND	NA
231GW29	195270-010	Water	Sulfate	70	DUP0606072A	195270-011	71	-1.4%
231GW29	195270-010	Water	Alkalinity, Total as CaCO3	270	DUP0606072A	195270-011	290	-7.1%
231GW29	195270-010	Water	Sulfide	ND	DUP0606072A	195270-011	ND	NA
231GW29	195270-010	Water	Total Dissolved Solids	500	DUP0606072A	195270-011	470	6.2%
FM14EX07GW102	195270-014	Water	Gasoline C7-C12	ND	DUP0606071A	195270-015	ND	NA
FM14EX07GW102	195270-014	Water	MTBE	ND	DUP0606071A	195270-015	ND	NA
FM14EX07GW102	195270-014	Water	Benzene	ND	DUP0606071A	195270-015	ND	NA
FM14EX07GW102	195270-014	Water	Toluene	ND	DUP0606071A	195270-015	ND	NA
FM14EX07GW102	195270-014	Water	Ethylbenzene	ND	DUP0606071A	195270-015	ND	NA
FM14EX07GW102	195270-014	Water	Xylene (total)	ND	DUP0606071A	195270-015	ND	NA
FM14EX07GW102	195270-014	Water	Diesel C12-C24	ND	DUP0606071A	195270-015	ND	NA
FM14EX07GW102	195270-014	Water	Motor Oil C24-C36	ND	DUP0606071A	195270-015	ND	NA
FM14EX07GW102	195270-014	Water	All PAHs	ND	DUP0606071A	195270-015	ND	NA

*Units for organic and metals analyses are ug/L; units for general chemistry analyses are mg/L.

RL: Reporting limit

VOCs: Volatile Organic Compounds

PCBs: Polychlorinated Biphenyls

PAHs: Polynuclear Aromatic Hydrocarbons

MBAS: Methylene Blue Active Substances (aka Surfactants)

ND: Not detected

NC: Not calculated. The absolute difference between the sample result and the duplicate sample result is less than the reporting limit.

N/A: Not analyzed

NA: Not applicable. Calculation of the relative percent difference between the sample result and the duplicate sample result is not applicable.

Table 4
Summary of QC Split Duplicates
Second Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	QC Split Sample ID	Laboratory ID	Duplicate Results*	RPD
1349MW100	195270-001	Water	Benzene	25	1349MW100CL	K0704852-002	21	17%
1349MW100	195270-001	Water	Toluene	0.5	1349MW100CL	K0704852-002	ND< 0.5	NC
1349MW100	195270-001	Water	Xylene (total)	0.8	1349MW100CL	K0704852-002	ND< 1	NC
1349MW100	195270-001	Water	All other VOCs	ND	1349MW100CL	K0704852-002	ND	NA
1349MW100	195270-001	Water	Gasoline C7-C12	5000	1349MW100CL	K0704852-002	140	**189%**
1349MW100	195270-001	Water	Diesel C12-C24	13000	1349MW100CL	K0704852-002	29000	**-76%**
1349MW100	195270-001	Water	Motor Oil C24-C36	ND< 300	1349MW100CL	K0704852-002	460	NC
1349MW100	195270-001	Water	Heptachlor	0.8	1349MW100CL	K0704852-002	ND< 0.096	**> +/- RL**
1349MW100	195270-001	Water	alpha-Chlordane	ND< 0.5	1349MW100CL	K0704852-002	0.17	NC
1349MW100	195270-001	Water	Endrin Aldehyde	N/A	1349MW100CL	K0704852-002	0.61	NA
1349MW100	195270-001	Water	Methoxchlor	ND< 4.7	1349MW100CL	K0704852-002	0.15	NC
1349MW100	195270-001	Water	All other pestides	ND	1349MW100CL	K0704852-002	ND	NA
1349MW100	195270-001	Water	Acenaphthene	5.1	1349MW100CL	K0704852-002	ND< 0.96	**> +/- RL**
1349MW100	195270-001	Water	Fluorene	16	1349MW100CL	K0704852-002	15	6.5%
1349MW100	195270-001	Water	Phenanthrene	29	1349MW100CL	K0704852-002	ND< 110	NC
1349MW100	195270-001	Water	Anthracene	1.4	1349MW100CL	K0704852-002	3.1	-76%
1349MW100	195270-001	Water	Fluoranthene	8.5	1349MW100CL	K0704852-002	ND< 13	NC
1349MW100	195270-001	Water	Pyrene	3.7	1349MW100CL	K0704852-002	ND< 4	NC
1349MW100	195270-001	Water	Benzo(a)anthracene	2.6	1349MW100CL	K0704852-002	ND< 0.096	**> +/- RL**
1349MW100	195270-001	Water	Chrysene	2.5	1349MW100CL	K0704852-002	ND< 0.096	**> +/- RL**
1349MW100	195270-001	Water	Benzo(k)fluoranthene	0.16	1349MW100CL	K0704852-002	ND< 0.096	NC
1349MW100	195270-001	Water	All other PAHs	ND	1349MW100CL	K0704852-002	ND	NA
1349MW100	195270-001	Water	Arsenic, dissolved	9.4	1349MW100CL	K0704852-002	18	**-63%**
1349MW100	195270-001	Water	Barium, dissolved	610	1349MW100CL	K0704852-002	710	-15%
1349MW100	195270-001	Water	Calcium, dissolved	140000	1349MW100CL	K0704852-002	145000	-3.5%
1349MW100	195270-001	Water	Cobalt, dissolved	ND< 10	1349MW100CL	K0704852-002	0.98	NC
1349MW100	195270-001	Water	Copper, dissolved	ND< 1	1349MW100CL	K0704852-002	1	NC
1349MW100	195270-001	Water	Iron, dissolved	39000	1349MW100CL	K0704852-002	39300	-0.8%
1349MW100	195270-001	Water	Magnesium, dissolved	190000	1349MW100CL	K0704852-002	213000	-11%
1349MW100	195270-001	Water	Manganese, dissolved	13000	1349MW100CL	K0704852-002	15300	-16%
1349MW100	195270-001	Water	Nickel, dissolved	ND< 20	1349MW100CL	K0704852-002	9.7	NC
1349MW100	195270-001	Water	Potassium, dissolved	2000	1349MW100CL	K0704852-002	ND< 2000	NC
1349MW100	195270-001	Water	Sodium, dissolved	350000	1349MW100CL	K0704852-002	405000	-15%
1349MW100	195270-001	Water	All other metals	ND	1349MW100CL	K0704852-002	ND	NA

Table 4
Summary of QC Split Duplicates
Second Quarter 2007 Groundwater Sampling Event
The Presidio of San Francisco, CA

Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	QC Split Sample ID	Laboratory ID	Duplicate Results*	RPD
1349MW100	195270-001	Water	Chloride	910	1349MW100CL	K0704852-002	840	8.0%
1349MW100	195270-001	Water	Fluoride	0.3	1349MW100CL	K0704852-002	ND< 1	NC
1349MW100	195270-001	Water	Nitrogen, Nitrate	ND	1349MW100CL	K0704852-002	ND	NA
1349MW100	195270-001	Water	Nitrogen, Nitrite	ND	1349MW100CL	K0704852-002	ND	NA
1349MW100	195270-001	Water	Sulfate	5	1349MW100CL	K0704852-002	3.8	27%
1349MW100	195270-001	Water	Alkalinity, Total as CaCO3	470	1349MW100CL	K0704852-002	972	**-70%**
1349MW100	195270-001	Water	Total Dissolved Solids	2920	1349MW100CL	K0704852-002	2360	21%
BHWGW01	195270-007	Water	Arsenic, dissolved	ND< 5	BHWGW01CL	K0704852-001	1.6	NC
BHWGW01	195270-007	Water	Barium, dissolved	46	BHWGW01CL	K0704852-001	49.8	-7.9%
BHWGW01	195270-007	Water	Cadmium, dissolved	ND< 1	BHWGW01CL	K0704852-001	0.03	NC
BHWGW01	195270-007	Water	Calcium, dissolved	17000	BHWGW01CL	K0704852-001	17900	-5.2%
BHWGW01	195270-007	Water	Chromium, dissolved	100	BHWGW01CL	K0704852-001	116	-15%
BHWGW01	195270-007	Water	Cobalt, dissolved	ND< 10	BHWGW01CL	K0704852-001	0.13	NC
BHWGW01	195270-007	Water	Copper, dissolved	ND< 1	BHWGW01CL	K0704852-001	0.5	NC
BHWGW01	195270-007	Water	Lead, dissolved	ND< 3	BHWGW01CL	K0704852-001	0.14	NC
BHWGW01	195270-007	Water	Magnesium, dissolved	77000	BHWGW01CL	K0704852-001	87900	-13%
BHWGW01	195270-007	Water	Nickel, dissolved	ND< 20	BHWGW01CL	K0704852-001	3.7	NC
BHWGW01	195270-007	Water	Sodium, dissolved	220000	BHWGW01CL	K0704852-001	244000	-10%
BHWGW01	195270-007	Water	All other metals	ND	BHWGW01CL	K0704852-001	ND	NA
BHWGW01	195270-007	Water	Chloride	230	BHWGW01CL	K0704852-001	220	4.4%
BHWGW01	195270-007	Water	Fluoride	0.12	BHWGW01CL	K0704852-001	ND< 0.2	NC
BHWGW01	195270-007	Water	Nitrogen, Nitrate	5.7	BHWGW01CL	K0704852-001	6	-5.1%
BHWGW01	195270-007	Water	Nitrogen, Nitrite	ND	BHWGW01CL	K0704852-001	ND	NA
BHWGW01	195270-007	Water	Sulfate	67	BHWGW01CL	K0704852-001	61	9.4%
BHWGW01	195270-007	Water	Alkalinity, Total as CaCO3	540	BHWGW01CL	K0704852-001	505	6.7%
231GW29	195270-010	Water	All VOCs	ND	231GW29CL	K0704852-003	ND	NA
231GW29	195270-010	Water	Gasoline C7-C12	ND	231GW29CL	K0704852-003	ND	NA
231GW29	195270-010	Water	Diesel C12-C24	ND	231GW29CL	K0704852-003	ND	NA
231GW29	195270-010	Water	Motor Oil C24-C36	ND	231GW29CL	K0704852-003	ND	NA
231GW29	195270-010	Water	Antimony, dissolved	N/A	231GW29CL	K0704852-003	0.24	NA
231GW29	195270-010	Water	Arsenic, dissolved	ND< 5	231GW29CL	K0704852-003	4	NC
231GW29	195270-010	Water	Cadmium, dissolved	ND< 1	231GW29CL	K0704852-003	0.13	NC
231GW29	195270-010	Water	Calcium, dissolved	27000	231GW29CL	K0704852-003	27400	-1.5%
231GW29	195270-010	Water	Copper, dissolved	ND< 1	231GW29CL	K0704852-003	0.6	NC

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Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	QC Split Sample ID	Laboratory ID	Duplicate Results*	RPD
231GW29	195270-010	Water	Magnesium, dissolved	53000	231GW29CL	K0704852-003	56800	-6.9%
231GW29	195270-010	Water	Manganese, dissolved	140	231GW29CL	K0704852-003	161	-14%
231GW29	195270-010	Water	Nickel, dissolved	ND< 20	231GW29CL	K0704852-003	2.9	NC
231GW29	195270-010	Water	Potassium, dissolved	4000	231GW29CL	K0704852-003	4690	-16%
231GW29	195270-010	Water	Sodium, dissolved	46000	231GW29CL	K0704852-003	51400	-11%
231GW29	195270-010	Water	All other metals	ND	231GW29CL	K0704852-003	ND	NA
231GW29	195270-010	Water	Chloride	54	231GW29CL	K0704852-003	49	10%
231GW29	195270-010	Water	Fluoride	ND	231GW29CL	K0704852-003	ND	NA
231GW29	195270-010	Water	Nitrogen, Nitrate	1.5	231GW29CL	K0704852-003	1.1	31%
231GW29	195270-010	Water	Nitrogen, Nitrite	ND	231GW29CL	K0704852-003	ND	NA
231GW29	195270-010	Water	Sulfate	70	231GW29CL	K0704852-003	68	2.9%
231GW29	195270-010	Water	Alkalinity, Total as CaCO3	270	231GW29CL	K0704852-003	280	-3.6%
231GW29	195270-010	Water	Sulfide	ND	231GW29CL	K0704852-003	ND	NA
231GW29	195270-010	Water	Total Dissolved Solids	500	231GW29CL	K0704852-003	469	6.4%
FM14EX07GW102	195270-014	Water	Gasoline C7-C12	ND	FM14EX07GW102CL	K0704852-004	ND	NA
FM14EX07GW102	195270-014	Water	Diesel C12-C24	ND	FM14EX07GW102CL	K0704852-004	ND	NA
FM14EX07GW102	195270-014	Water	Motor Oil C24-C36	ND	FM14EX07GW102CL	K0704852-004	ND	NA
FM14EX07GW102	195270-014	Water	MTBE	ND	FM14EX07GW102CL	K0704852-004	ND	NA
FM14EX07GW102	195270-014	Water	Benzene	ND	FM14EX07GW102CL	K0704852-004	ND	NA
FM14EX07GW102	195270-014	Water	Toluene	ND	FM14EX07GW102CL	K0704852-004	ND	NA
FM14EX07GW102	195270-014	Water	Ethylbenzene	ND	FM14EX07GW102CL	K0704852-004	ND	NA
FM14EX07GW102	195270-014	Water	Xylene (total)	ND	FM14EX07GW102CL	K0704852-004	ND	NA
FM14EX07GW102	195270-014	Water	All PAHs	ND	FM14EX07GW102CL	K0704852-004	ND	NA

*Units for organic and metals analyses are ug/L; units for general chemistry analyses are mg/L.
RL: Reporting limit
VOCs: Volatile Organic Compounds
PAHs: Polynuclear Aromatic Hydrocarbons
ND: Not detected
NC: Not calculated. The absolute difference between the sample result and the duplicate sample result is less than the reporting limit.
N/A: Not analyzed
NA: Not applicable. Calculation of the relative percent difference between the sample result and the duplicate sample result is not applicable.